REVIEW OF INTERNATIONAL BROADCASTING

Our Radio New Zealand International Emblem

At the centre is 'Te Ika a Maui' - the fishhook with which Maui hauled the North Island of New Zealand from the ocean. Its shape echoes the 'koru' - the frond of the native punga fern, supported by fern leaves. Above it is the representation of a mountain, such as Taranaki (Mt. Egmont) or Aoraki (Mt Cook). The triangles come from compass plates used in sailing ships, and now incorporated in many Polynesian tattoos. They point towards the dots of Micronesia's atolls, protected by reefed lagoons. The wavy line at the base is like those painted on the body for Melanesian dances and 'sing-sings', representing Vanua - the land.

The overall shell shape is reminiscent of fans plaited from pandanus and coconut fibre by people all over the Pacific. The emblem was designed by Michael Tuffrey, a New Zealander of Samoan descent. (via John S Carson, OK)

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P R O G R A M M E P A R A D E

A L B A N I A (via Harold Sellers, Oct DX Ontario) R Tirana Mar-Sept 91 program sked--features on the first and second transmission respectively: Mon SPORTS ROUNDUP; PROGRAM LINE-UP. Tue P O BOX RADIO TIRANA; VIEWING OUR VIEW. Wed MUSIC FOR YOUR PLEASURE /both?/. Thu ---; PROFILE. Fri FOCUS ON THE YOUTH and QUESTION MARK. Sat ---; MUSIC ON REQUEST. Sun HOST ALBANIA; SUNDAY VARIETY.

AUSTRALIA (gh) Further updating this issue's DX program listing, in another apparent seasonal program shakeup, COMMUNICATOR was missing without explanation from Sun 1430 Nov. 3--instead, FINE MUSIC AUSTRALIA with Barry Seeber. So is it canceled, or elsewhen? Check other previously scheduled times.

A U S T R I A (via Gordon Darling, PNG) RAI's main program is REPORT FROM AUSTRIA, daily with these exceptions: AUSTRIAN COFFEETABLE--music all styles and the arts, Sat 1130, 1330, 1530, Sun 0630; AUSTRIAN SHORTWAVE PANORAMA--communications and DX news, same times on Sun, UTC Mon. Nothing is specified about different regular daily topics on RFA. The German program from ORF has expanded scheduling of the two DX shows--if you at least can copy German's backward numbers, you might glean some useful info. The 5-minute DX TELEGRAMM is on Suns at 0055, 0555, 0855, 1155, 1555, 1755, 2055. The 25-min KURZWELLENPANORAMA can be heard Sat 0505, 0805, 1005, 1105, 1405, 1705, 2005, 2330, Sun 0205. The French service also has a DX program, FLASH DES ONDES, Sun 1930, 2230, Mon 0030.

BELGIUM (via Rusty Serenberg, FL; and Darling, PNG) BRT starts with NEWS, PRESS REVIEW, BELGIUM TODAY on the Mon-Fri 19, 22, 2430, and Tue-Fri on the 0730, 10 and 14; following features on the Mon-Thu eve bcs repeated on the Tue-Fri morns: Mon FOCUS ON EUROPE, SPORTS. Tue AROUND THE ARTS, P O BOX 26. Wed LIVING IN BELGIUM, GREEN SOCIETY. Thu ECONOMICS, NORTH-SOUTH. Fri AROUND THE ARTS, P O BOX 26. All Sat bcs: NEWS, PRESS REVIEW, RADIO WORLD, TOURISM, RECORD OF THE WEEK, P O BOX 26. Sun NEWS, PO BOX 26, MUSICAL ROUNDABOUT. Mon morn, NEWS-PRESS REVIEW, RADIO WORLD, TOURISM IN FLANDERS.

B U L G A R I A (John Norfolk, OK) SOFIA CALLING Oct. 13 at 2330 announced schedule one hour earlier than reality since late Sept. Referred to their program as "marvelous," "the best DX program on the air," "best DX program in the world, you know." No, I don't--bullshit! John Beck's DXPL at its worst was better than SOFIA CALLING. Hosts of this marvelous and best DX program don't know about their owr timechange. Nor are they able to give exact times for their own program.

C A N A D A (gh) For reasons unclear, BEST OF MORNINGSIDE, I guess from Friday, has replaced the formerly convenient repeat of the first hour of SUNDAY MORNING, Suns at 20-21 on RCI starting Oct. 27. But the repeat of 2nd hour, CENTERPOINT, remains at 22-23 on Euro frequencies. Same setup hrd Nov. 3.

(CBC Radio Guide via Tim Flannery, Zack Schindler) IDEAS on CBC Radio, 9:05 pm weekdays: Wed Nov 13, Court of Ideas: Herod. Thu Nov 14, High Tech Caring--is loss of human touch making us sicker? Fri Nov 15, Life and Times Literary--art and practice of biography. Mon-Fri Nov 18-22, 1991 Massey Lectures by Charles Taylor: "The Malaise of Modernity"--self-fulfillment, culture of narcissism. Mons Nov 25-Dec 23 Mozart: The Golden Touch; On the Road to Prague; A Perpetual Radiance; The Eternal Now; Scrapbook of a Marriage--a 5-part dramatized musical invention. Tues Nov 28 & Dec 3, Ladeez and Gentlemen--cowboys and belly dancers, roots of rodeos and cabarets. Wed Nov 27, The Copy Revolution. Thu & Fri Nov. 28-29, Historians on Confederation. Wed-Thu-Fri, Dec 4-5-6, The Idea of Pearl--Harbor as event, metaphor, obsession and myth. Tues Dec 10 & 17, Instant Intimacy--obsession with relationships. Wed & Thu Dec 11 & 12, Isinamowin: The White Man's Indian--stereotypes. Fri Dec 13, 1991 Graham Spry Lecture--Michael Ignatieff on identity, culture, survival in a globalizing world. Wed Dec 18 Voices--happy and optimistic cerebral palsy victim. Thu Dec 19, A Christie for Xmas--secret of Dame Agatha's success. Fri Dec 20, Night-words gathered for the winter solstice. Tue Dec 24, Clara's Dream--words of young Nutcracker ballet students. Wed Dec 25, A Little Musical Magic. Thu-Fri Dec 26-27, Celtic Adventure: Boswell and Johnson in the Hebrides. # why can't RCI find room for this??

(Larry Shewchuk, Winnipeg, Sept. 25) Morale at the Montreal office of RCI is at rock bottom. My good friend Aldo Marchini who used to host L'ATTITUDE, and the RCI Caribbean program is now doing traffic reports for CBC Montreal's local morning show. Surely CBC could have found a much better gig for a guy of Aldo's talents. Other former RCI on-air staff have been shuffled to off-air jobs at CBC-Mtl.

C O S T A R I C A (gh) Changes in the Oct-Nov-Dec RFPI schedule vis-à-vis the previous in RIB 139: Tue 2130 Dialogue, UPAZ News. 2330 Jeff Herman Reports. Thu 2130 Jeff Herman Reports. Fri 2000 Changemakers, 2030 From the Atom to the Universe. Sat & Sun 18-19 FIRE now 7 dpw, with a Spanish version at 17-18 on 7375. Sat 19 Living Enrichment Center. Sun 19-20 World Goodwill Forum, 21 Changemakers. RFPI has been hit by all-night jamming on 7375 so has been keeping it mostly on AM.

COMMON GROUND Nov topics, Weds at 2230 +6 +12 +18h: New Vision for Development; Return to Romania with NPR's Andrei Codrescu; African Dreamer--Uganda; Crisis in the Soviet Union. NEW DIMENSIONS: Nov 11-17, Living Your Bliss, Wayne Dyer. Nov 18-24, Forgiving Yourself: Healing Old Wounds, Dwight Lee Wolter. Nov 25-Dec 1, Celebrating Life, Robert Fulghum. Dec 2-8, Waking Up from the Dream, Amy & Arnold Mindell. Dec 9-15, Loving Kindness and Active Peace, H.H. Dalai Lama and H. E. Tai Situpa. Dec 16-22, Sufi Dreams & Themes, Llewellyn Vaughan-Lee. Dec 23-29, Beyond Thought of War, Schmookler.

C R O A T I A (non) (John Mrvica, PA) On local Tue evening, Oct 29, I discovered the Croatian R, Zagreb via WHRI is now followed by another such program, Radio Free Croatia; opens in CR & English, "from Chicago every Mon/Wed/Fri (apparently UTC as I heard UTC Wed 01-0130) on the 41st /sic/ meter band at 7.315 MHz." Then alternating items in languages, but more Croatian. Promoted calls and faxes to Bush to lift arms embargo against Croatia, petition drive. Before 0130 s/off gave phone 312-984-1101; then WHRI went back to religious music and programming in English.

E C U A D O R (HCJB) A regular phone-in program begins Nov 4, Mondays 8:30 pm EST, OPEN LINE, hosted by Ken MacHarg, who originated call-ins 7 years ago on HCJB, but this is first weekly with specific topics, guests--current events, social and theological, e.g. marriage, Columbus, environment. Average cost from US is less than $1 a minute to 011-593-2-241-560. Phone not answered until ready to go on; on 9745, 15155, 21455 kHz, UTC Tuesdays 0130. Lots of HCJB regulars are getting into Xmas themes.

E G Y P T (Dale Vanderpoel, SW Echo, 7 Aug via Al Quaglieri) R Cairo English to NAm 02-0330 9475 11865 UTC days. Daily 0215 & 0315 NEWS. Mon 0200 MUSIC, 0205 HOLY KORAN & INTERPRETATIONS, 0225 ROUND UP, 0235 LIFE IN EGYPT, 0245 LISTENERS MAILBAG. Tue 0200 MUSIC, 0205 EGYPTIAN HOME, 0225 COMMENTARY, 0235 EGYPTIAN/AMERICAN RELATIONS, 0245 ART IN FOCUS, 0255 EGYPTIAN SONGS, 0300 LETTER FROM EGYPT, 0310 EGYPTIAN SONGS. Wed 0205 LIGHTER SIDE OF NEWS, 0225 SPOTLIGHT ON MIDEAST, 0235 TOURISM IN EGYPT, 0245 CULTURAL LIFE, 0255 MODERN EGYPTIAN SONGS. Thu 0200 MUSIC, 0205 WEDNESDAY TALK, 0225 COMMENTARY, 0235 INDUSTRY IN EGYPT, 0245 LISTENERS MAIL. Fri 0205 PROFILES, 0225 EGYPT'S FOREIGN POLICY, 0235 STORY & AUTHOR, 0245 EGYPTIAN SONGS & MUSIC, 0255 CAIRO MAGAZINE. Sat 0205 HOLY KORAN, 0225 ALTERNATIVE POINT OF VIEW, 0235 RELIGION OF ISLAM, 0245 EGYPTIAN POP, 0255 EGYPTIAN SONGS, 0305 READERS CORNER. Sun 0205 Q & A, 0225 PRESS REVIEW, 0235 STAMP COLLECTOR'S CLUB, 0245 RADIO GUEST, 0255 EGYPTIAN SONGS, 0305 CURRENT EVENTS. # probably in effect thru December, slightly changed thereafter

G E R M A N Y (DW Programm Nov) Nov. 24 is next date for 8-weekly STADTBUMMEL, Dresden, 0630 + 4hrly.

H U N G A R Y (via John Carson & Gordon Darling) R Budapest International previews topics day-by-day, after NEWSROOM: Tue Nov 12 MAGAZINE 90, Nov 19 WHAT YOU SAY, Nov 26 BUSINESS PARTNER, Dec 3 REPORTER-Match Makers, Dec 10 Question of Choice--Human Rights Day, Dec 17 Magazine 90, Dec 24 WHAT YOU SAY, Dec 31 BUSINESS PARTNER. Each is followed by DX NEWS, HIT LIST, and Dec 24 at the end a special, BROADCASTING PIONEERS--Fessenden, Sarnoff. Weds DX WORLD, CONVICTION weekly; Nov 13 then HUNGARY-HOLLAND--friendly Soccer International, Nov 27 add Janos Pilinszky, bard of Christian Humanism-Existentialism, Dec 25 Xmas Story--Coach & Fives by Andre Bajor; In Unison--songs of faith. Thu LETTER FROM BUDAPEST, TALK BACK, Nov 14 Six Countries Plot Regional Course, MUSIC & VIRTUES & VICES; Nov 21 High Flyers in Privatization Stakes, MUSIC & INTERARTS, Nov 28 Commissioner and the Police Image, Music and Clubland, Dec 5 Trade Unions--Divided They Stand, Music & Mozart "Authentick", Dec 12 Red Cross Societies in Changing World, Music & Animators; Dec 19 Hungary & European Community, Music & Eating Out; Dec 26 Year of the Pope, Music and the Season. Fri ends with DX WORLD & HITLIST; before them, Nov 15 MAGAZINE 90, Nov 22 WHAT YOU SAY, Nov 29 BUSINESS PARTNER, Dec 6 REPORTER, Dec 13 QUESTION OF CHOICE, Dec 20 MAGAZINE 90, Dec 27 WHAT YOU SAY. Sats TALK BACK, DX NEWS, and repeat of Thu music feature. Suns CONVICTION, BRIEFING, HIT LIST, plus: Nov 17 SMOKE FREE DAY, Dec 8 Albert Szenci Molnar, first writer to make Hungarian culture accessible to rest of Europe; Dec 29 Yellow Pages. Mons LETTER FROM BUDAPEST, 168 HOURS, music feature repeated on Thu, Sat, incl Dec 30 MUSIC & YEAREND.

I S R A E L (IBA schedule via Monitoring Times) Jewish Holidays & Festivals affecting programming: Dec 1, eve of Hanukka, Dec 2-9 Hanukka, Jan 20 Tu B'Shvat--New Year of Trees, Mar 18-19 Purim..

J A P A N (via Daryl Rocker & Ian McFarland) Radio Japan Apr 91-Apr 92 programs during RCI relays: 1100 (also at 0700 direct) M-F RADIO JAPAN NEWS ROUND, 1130 R J MAGAZINE HOUR: Mon CROSSCURRENTS, Tue INTO JAPAN, Wed ASIAN PLAZA, Thu ECONOMY UPDATE, Fri GLIMPSE OF JAPAN; 1150 COMMENTARY, 1155 NEWS. Sat entire hour THIS WEEK--News, etc. Sun 1100 NEWS, 1115 HELLO FROM TOKYO, RADIO JAPAN GUIDE, etc., 1154 VIEWPOINT. At 0300 (also at 15, 21, and next UTC day 01) NEWS, 0315? R J MAGAZINE HOUR: Mon IN CONVERSATION, LET'S PRACTICE JAPANESE: Tue JAPAN CLOSE-UP, INTO JAPAN. Wed ASIAN HOTLINE, ASIAN PLAZA. Thu BUSINESS TODAY, ECONOMY UPDATE. Fri MUSIC MIX. Sat THIS WEEK entire hour. Sun NEWS, LET'S LEARN JAPANESE, 0330 DX CORNER, 0354 VIEWPOINT.

N A M I B I A (Larry Shewchuk, Man., Sept 25) R Namibia has new weekday morn news at 0400, DATELINE NAMIBIA, very fast-paced, local reporters on street, court house; focus on developing news that particular working day; local weather, ads at 0434. Heard on 3289.9, not on 3270.

N E T H E R L A N D S (RN Sept-Dec previews via Darling) Mons RESEARCH FILE, science pgm. Tue MIRROR IMAGES, arts. Weds docus & features: SITAR TO SALSA, Holland music melting pot, dates not clear, maybe over now; late Nov, docus on E Europe; Dec 25, extended docu on what's happened over the decades ir Xmas week. Jan-Mar 92, IN SO MANY WORDS, 12-parter on language diversity and cultures in Euro community, threat of English, German comeback? etc, from Jan 8. Thu "unrivalled" MEDIA NETWORK, no details. Fri SOUNDS INTERESTING 13 parts from Oct 4, Q&A, sights and sounds of Holland--or is it from Apr 5 92 or both? Info given is contradictory. Sat regional mags: Carib/Pac/NAm VAN GOGH'S EAR, Euromag; or ASIASCAN, or AIRTIME AFRICA. Sun HAPPY STATION as always.

N E W Z E A L A N D (via Monitoring Times) Altho a Sept-March program guide had been issued, RNZI followed with one dated Oct 91-Mar 92, apparently taking into account one hour earlier domestic program simulcasts during DST, but RNZI-produced programs did not shift time. Some excerpts, 17770 until 0630, then 9700: Mon-Fri 0100-0425 IN TOUCH WITH NEW ZEALAND, Wayne Mowat, 0425 DISCOVER NZ. Mon 0430 MAILBOX alt TRAVEL PACIFIC. Fri 0430 CALLING TOKELAU, CALLING PITCAIRN & NORFOLK, AROUND THE WORLD WITH RUDI HILL /last heard Oct 25/ rotating 4-weekly. M-F 0508 MANA NEWS--Maori news and issues; 0530 EARS--for children of all ages; 0600 PACIFIC ISLANDS NEWS MAGAZINE. Mon 0810 CALLING COOK ISLANDS, 0835 CALLING TONGA. Tue 0810 PACIFIC BEAT, 0905 CALLING SOLOMONS & VANUATU, KIRIBATI, PNG, FRENCH PACIFIC, PACIFIC REVIEW. Wed 0810 CALLING SAMOA, 0835 CALLING NIUE. Thu 0810 PACIFIC PRESS REVIEW, 0830 MAILBOX alt TRAVEL PACIFIC. Fri 0810 PACIFIC BEAT, 0905 CALLING FIJI.
Tony King hosts a 2-week tour of NZ departing Los Angeles Feb. 7, for US$3157ppdo plus $540 penalty for singles, including airfare; usual tourist spots plus radio sites. Details on Mailbox, minus price

P H I L I P P I N E S (via Gordon Darling, PNG) R Pilipinas pgm sked for English 0230-0330 on 17760 17840 21580: Mon BUSINESS TALK, ORIGINAL PILIPINO MUSIC. Tue PASSPORT TO PROGRESS, HUMAN WANTS, SPORTS FOCUS. Wed ACHIEVERS, INSIGHTS. Thu BEHIND THE MUSIC, PHIL SPORTS, MALACANYANG INFO SERVICE. Fri LISTENERS & FRIENDS, WELCOME TO THE PHILS. Sat THE WEEK THAT PASS, TODAY'S HEROES, PHIL EXPERIENCE. Sun ISSUES & OPINIONS. NEWS concludes each. # via VOA transmitters

R U S S I A (via John Carson, OK) R Moscow NAm Service Sept-March: 00, 03, 05 & 07 hours: daily 00 NEWS, 0010 Mon/Tue/Thu NEWS MAGAZINE, Wed/Sat/Sun MOSCOW MAILBAG, Fri TOP PRIORITY. Mon 0025 flex, 0040 NEWMARKET. Tue 0025 flex, 0030 HOME IN THE USSR, 0045 STRAIGHT FROM THE HORSE'S MOUTH. Wed 0025 NEWS MAGAZINE, 0040 HOME IN USSR, 0050 flex. Thu 0025 NEWMARKET, 0045 SCIENCE & ENGINEERING. Fri 0030 SCIENCE & ENGINEERING, 0040 flex, 0050 HOME IN USSR. Sat 0025 flex, 0035 FOLK BOX. Sun 0025 TOP PRIORITY, 0040 flex. The other hour at 01, 04, 06 & 08: daily 0100 NEWS. Mon-Sat 0110 OUTLOOK, Sun SCIENCE & ENGINEERING. Mon-Fri 0125 UPDATE,Sat/Sun flex. 0135 Sat CULTURE & ARTS, Sun FOLK BOX. 0145 Mon-Fri flex. Times are approximate from block sked with imprecise layout.

(Larry Shewchuk, Man.) Joe Adamov on MAILBAG has been telling anti-Semitic, other tasteless jokes. RM now mentions local weather at end of some newscasts like BBC, RN.

S O U T H A F R I C A (Larry Shewchuk, Man) R RSA has interesting program, THE EDITORS, roundtable discussion with journalists local and foreign; Sept 29 1530 on 15270 was about right-wing hit squads; said from next week would be Sundays at 1630 instead.

S W E D E N (gh) SWEDEN CALLING DXERS is being phased into MEDIASCAN, seemingly now first aired on the one-hour 1930 bc to Europe on Tues, then repeated on half-hour shows thru 1530 the next day Wed; nominally 1st and 3rd Tues+, but often hrd at least w/brief segment other weeks, and supposedly with complete version only during hour program. Magazine title is 60 DEGREES NORTH.

U S A (gh) Check DX Program list and back cover for latest WORLD OF RADIO sked. UTC Suns on WWCR 7435 at 0435 it's followed by SIGNALS, a new DX program crammed with commercials, contributors by phone and clutter for those who need their info in small doses, but not much SWBC; and at 0530 (at least until Dec 8) by CROSSBAND, live with call-ins. Perhaps I'm partial, but as a listener I find SIGNALS too scripted and repetitive, CROSSBAND too slipshod, and W.O.R. just right.... See the Oct. 27 NY Times for Radio Station Offers Everything But Consistency (via A Berrien, CT), about W.O.R. outlet WPKN, a station we're proud to be associated with, and which has not been sold to the Moonies.

(via Paul Blumstein, SWL List 9 July via Will Martin) Voice of the OAS, 2345-2430 on 9565 11830 15160, all in SP except PT where specified. Mon CHRONICLES OF OUR TIME (5 min)--economic, social, political happenings of hemisphere; ECONOMIC MAGAZINE (7), NEWS ROUNDUP (8), LATIN AMERICAN MUSIC (8), INTER-AMERICAN INSTITUTE FOR AGRICULTURAL COOPERATION (15) or late-breaking OAS NEWS. Tue COOT, COMMISSION FOR QUINCENTENNIAL OF DISCOVERY OF AMERICA (10 mins alt weeks) alt with LISTENER MAIL (8), OAS or IICA PROGRAM, NEWS (8), LAm MUSIC. Wed COOT (5), NEWS (8), OAS NEWS--Council mmetings, ceremonies, artistic & cultural events, interviews with officials, visitors; LAm MUSIC. Thu COOT (5), NEWS (8), AMERICAN HORIZONS (28)--geographic, historical, cultural profile of an American nation or place. Fri COOT (5), NEWS (8), LAm MUSIC, OAS NEWS, Portuguese (15)--news, features, interviews, music. Sat Portuguese (15), CONCERT OF THE WEEK (28)--LAm music performances recorded at OAS HQ. Sun MUSIC USA--radio magazine spotlighting American jazz, folk, country, pop, often showcasing outstanding LAm artists.

(gh) It's hazardous to work for VOA. NY Times Sept 23 (via Larry Nebron) reports Albanian section head Elez Biberaj and others had their car rammed deliberately while visiting Albania, broke foot. Oct. 15 Wash Post (via Alan Johnson) says Isidro Olace was kidnapped in Washington, and Salvadoran Patriotic Directorate demanded broadcast of certain statements, not done and subsequently released.

(David A Rude, KA9SRU) 10 m SWL net on trial basis Nov 10, 17, 24, Sundays 1600 UTC on 28400 ± 5 kHz; listen for my call, N9EWO David Zantow or KA9WBX. All who can legally use frequency are welcome. We are interested in almost any area of SWLing and hope there will be something for everyone.
CLOSING DATE for Issue 140 was November 5, 1991. DXLD-35 to be published subsequently. Regards, gh

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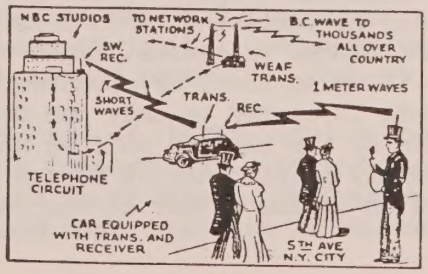
by Loren Cox

But Bach, sometimes, did it just for fun
e.g., the "Coffee Cantata" /
"That low, dishonest, decade", said Auden,
speaking of the 1930s
having in mind the behaviours
of nation states & statesmen
(how w'd he have seen the '80s?)
But Germany c'd very well have won the war,
probably the chief mistake having been
not to put Germany on a full war-time economy
until it was too late
with the ironical result that the British
were really more prepared for war when it came
than was Germany,
the early successes of the Blitzkriegs
giving a false indication of Germany's true strength
with bad timing contributing
to the eventual Russian debacle
And today is 6 June 1991, 47 years to the day
of the Normandy Invasion,
the first news of which was flashed to North America
at about 2:30 am EWT by REICHSRUNDFUNK
on 49 meters (DXJ),
Radio Berlin's self-styled "Nazi Commentator"
(was he an American?; always thought not)
having kept his promise, reiterated in the days prior
to the invasion,
that he w'd be the first to tell America
that the attack on Festung Europa was under way
implying that the only possible outcome
w'd be a massacre of Allied forces
but soon the HF circuits from London to New York
were overloaded as the American networks
sought to bring in their correspondents
("Mutual's screaming its head off for Arthur Mann")
or just relayed the BBC
with the Blue Network, later that day,
presenting reporter George Hicks' wire recorded description
of the Channel crossing, the landing craft reeking with the puke
of seasick soldiers, Hicks thankful
that sick as he was from the rough Channel waters
he w'dn't have to go onto the beaches ready to fight,
and I listened all day
tuning from network to network (WLAP-MBS/Blue; WLW-NBC; WHAS-CBS)
catching the various network "commentators"
(WLW had some of their own)
each giving a summary of wire dispatches
followed by an "analysis"
with the now very venerable Bob Trout
acting as the CBS "anchor" in New York,
or going to shortwave from time to time
catching the BBC (the North American, General Overseas
& Home Service being sometimes combined)
or "The Voice of America, one of the United Nations"
which w'd sometimes run a ssb feeder adjacent
to a full carrier transmission (described as "sideband playing")
(perhaps the full carrier transmission functioned as a
pilot carrier for the SSB transmission, the pilot carrier technique
being used in HF SSB radiotelephony)
or "Ici Vichy", or Brazzaville,
or ABSIE (the American Broadcasting Station in Europe)
whose "interval" consisted of the first 7 notes

PICTURED ABOVE IS GEORGE HICKS - AT THE TIME OF THIS PHOTOGRAPH (1936) AN NBC STAFF ANNOUNCER - WHOSE GRAPHIC WIRE RECORDED DESCRIPTION OF THE D-DAY CHANNEL CROSSING FOR THE BLUE NETWORK GAVE AMERICANS THEIR ONLY FIRST HAND AURAL ACCOUNT OF THAT MASSIVE MILITARY EXERCISE. THE POINT OF INTEREST IN THIS PHOTOGRAPH IS THE TECHNOLOGY IN REMOTE BROADCASTING - THE "HAT" TRANSMITTER - BEING DEMONSTRATED. THE TWO TUBE (955) BATTERY POWERED TRANSMITTER HAD A POWER OUTPUT OF 200 MILLIWATTS ON 270 MHZ. IT WAS PICKED UP BY A RADIO EQUIPPED AUTOMOBILE A SHORT DISTANCE AWAY WHICH RELAYED THE TRANSMISSION TO THE NBC STUDIOS FOR BROADCAST. ("HE TALKS THROUGH HIS HAT - AND GETS PAID FOR IT" WAS THE TITLE OF THE SHORT WAVE CRAFT STORY.)



of "Yankee Doodle" electronically produced
but don't remember if I managed to hear
the English version of "Report to the Underground"
that day (on ABSIE, which, as I recall,
had 4 transmitters in England, 2 U.S. owned,
2 supplied by the BBC)
and can't remember if, on that particular day,
I heard press wireless station WQO in New York, which,
in its point-to-point contacts operated duplex
permitting me to hear print reporters reading their
dispatches to be transcribed in New York;
listened to WQO a lot during the Italian campaign
tho' there were times - to my disgust - when they went
to "Condition A", which was SSB (didn't know what
SSB was; just knew the audio got distorted,
unintelligible - had heard the same thing happening
on AT&T transmissions),
and then, that evening, my youthful ears
would hear the emanations from Radio Berlin
tho' I can't remember what specifically was said that
evening/ (if only I'd had some kind of recorder!)
and c'd have used a better radio,
the old Truetone being about at the end
of its tether (as a rememberance I still gave
the dial), so I was unable to hear Berlin
in their final days of broadcasting
and was generally out of shortwave listening
for several years, resuming in Febr/ 1953
when, back from Korea, I obtained a S-38C
[Sometimes did some 13 meter listening
on the BC-603 tank radio - c'd be tuned
from 20 - 28 MHz] -
but all of this talk about D-DAY
(it was a bright/blueskyday in Kentucky
just like today)
is the result of a discussion about it
(& the war in general)
I've just been listening to
on CJRT-FM (Anik C1/12.000 GHz H/5.76-5.94 MHz),
this program being followed by a playing
of the "Coffee Cantata"...
[A bit of noise on CJRT - and the video
on this transponder - TV ONTARIO - which
w'd not be the case if the powerful Anik E2
satellite had not gone awry] /

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THE URBANE GENTLEMAN ABOVE IS BOB TROUT, A WELL KNOWN RADIO VOICE DURING WW II. HE WAS THE NEW YORK "ANCHOR" FOR CBS NEWS BROADCASTS. MR TROUT, RETIRED AND FOR A NUMBER OF YEARS RESIDENT IN SPAIN, DID AN OCCASSIONAL REPORT FOR ABC TV NEWS UP UNTIL A FEW YEARS AGO. BACK IN THE '50S, HE DID AN EARLY SATURDAY AFTERNOON BROADCAST ON CBS TV, DESCRIBING HIMSELF AS "YOUR OBSTREPEROUS REPORTER", THE SUAVE AND COURTLY TROUT BEING ANYTHING BUT "OBSTREPEROUS". IN THIS PHOTOGRAPH - ALSO FROM 1936 - HE IS SHOWN MAKING USE OF ANOTHER IDEA IN LOW POWERD PORTABLE TRANSMITTERS FOR E.N.G. THE VHF (CALLED "ULTRA SHORT WAVE" IN THOSE DAYS) TRANSMITTER IS BUILT INTO THE CANE. THE BATTERY POWER SUPPLY AND AUXILIARY EQUIPMENT ARE CARRIED IN A SPECIAL BELT AND CASE. THIS TRANSMITTER ALSO USES ACORN TUBES (THE BEST TUBES OF THE TIME FOR "ULTRA SHORT WAVE" WORK). THE MICROPHONE IS STRAPPED ON THE WRIST, MAKING THIS PRESUMABLY THE FIRST "WRIST RADIO" (TX ONLY). THE METAL CANE FUNCTIONS AS AN ANTENNA AS WELL AS A CONCENTRIC RESONANT LINE CIRCUIT. ACTUALLY THE "HAT TRANSMITTER" ON THE PREVIOUS PAGE, THE ANTENNA THERE BEING A 6½" ALUMNIUM ROD EXTENDING FROM THE HAT IN WHICH THE TRANSMITTER WAS LOCATED, SEEMS A BIT MORE PRACTICAL.

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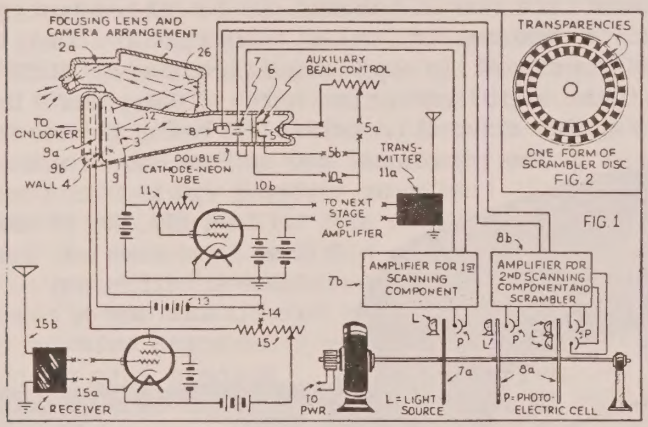
THE ITEMS ON George Hicks and Bob Trout and their early "walkie-talkies" (early portable TV camera-transmitters were called "creepie-peepies") are from 1936 issues of Hugo Gernsback's Short Wave Craft. I have recently acquired most of the issues that came out from 1932 thru 1937 (by which time the magazine was called Short Wave and Television), and have been enjoying once again "DXing" the 1930s. Among the magazine's many interesting features are Gernsback's monthly editorials, generally with an eye toward the future. For example, this observation on the future of television from the October 1936 issue: "A skeptical reader of SHORT WAVE CRAFT writes me, stating that he does not believe that television will ever be practical. He feels that when television comes, he must sit in a darkened room in order to view it, and that alone, he claims, makes the entire thing impractical.

"Not so fast, Mr. Doubter. In the first place, the semi-darkness now prevailing in television tests is caused by only one deficiency, and that is insufficient light intensity [available from the CRTs of the time as well as neon bulbs and Kerr cells used in mechanical systems]. As I have frequently pointed out, I do not believe that the present type of cathode-ray tube or mechanical television is the answer to the real and future television. When the great television invention finally

comes along, there will be no trouble with light intensity. Indeed, the time will come when you will sit in the full sunlight and enjoy the finest television programs. You will use a tiny television receiver placed right on your very nose - a device which I term "television eyeglasses." These will be regulation eyeglasses, but instead of having the normal lenses, they will have a small projection of one or two inches which will house the entire television receiver. There will be two such receivers working in unison, giving you thereby stereoptical television view. Attached to the eyeglasses will be a tiny earpiece fitting right inside your ear [not one for each ear, thus providing stereo audio?]. The future device thus will give you sight and sound, the entire apparatus not weighing more than four or five ounces. With this device, you can sit in plain daylight or darkness and enjoy the world's best television programs to your heart's content."

That Gernsback could have conceived of this sort of miniaturization before the development of solid state/semiconductor electronics is remarkable (tho' probably not for him). And we seem to recall having seen "television eyeglasses" reported in an electronics magazine several years ago, at least as an experimental device. And, of course, we have ultra-miniature TV sets with LCD screens. 3-D television eyeglasses which would provide holographic imaging could be a likely instrumentality toward the achievement of that next step in home entertainment - "virtual relaity".

More on television as it actually was in the early-to-mid-1930s (not as Gernsback was foreseeing it) in an upcoming column. But for the moment - since the "scrambling" of video transmissions (ô singal security!) is today such a pervasive activity - I thought I would show you what must be the first scheme for television scrambling - from the year 1937. Called the "secret television system", it employed a "'dual' cathode ray tube for transmitting and receiving images simultaneously" and a "scrambler" disc. What the inventor (Dyonis M. Morandini, MA, ME, EE) had in mind was a video telephone system, compatible with either wired or wireless transmission, that would insure privacy. The wildly improbable idea of scrambling television programming indended for viewing by the general public - or scrambling it in order to make people pay for the the priviledge of watching it - had presumably not occurred to anyone. In this system "the two scanning components, e.g., of 24 and 7200 cycles, are generated by the discs and photo cells of 7a and one part of 8a, which, in principle is amechanic-electrical method of generating interlocked saw-tooth impulses. These generated voltages having a saw-tooth wave shape are applied to the deflecting plate pairs 7 and 8 of the cathode ray tube for the purpose of sweeping the cathode been 12 back and forth and up and down. Since the discs are driven by a common shaft the voltages are interlocked in such a way that it is impossible for them to get out of phase.



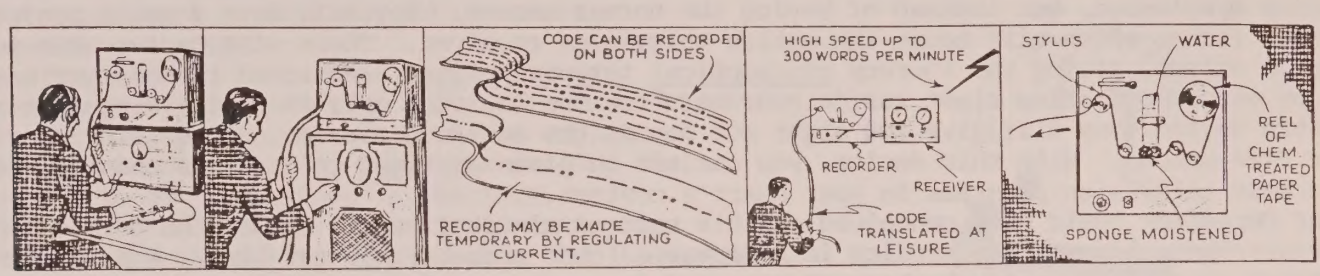
Above—Schematic diagram of the author's new television system employing "dual" cathode ray tube for transmitting and receiving images simultaneously. Diagram at left shows author's telephone-television scheme, utilizing two-way cathode tubes with centrally located "disc" frequency generator and scrambler.

"The second rotating disc of 8a and its photo-cell arrangement is used for the purpose of providing secret transmission, if such a feature is desired. This disc may have any design of transparancy...such that its output will be of any pre-arranged frequency, shape and amplitude. The output of this "chopper" disc will be superimposed...upon one of the scaning components, suitably amplified with it (through 8b) and introduced to one pair of deflecting plates (8) while the other component (7a) after amplification (7b) has been introduced to the other pair of deflecting plates, 7." Etc., etc. Obviously the intended receptor of the scrambled transmission must be "equipped with an identical scrambling device" to reverse the process. I don't know if any commercial application was ever made of this system (presume not), and in its primitiveness cannot compare to a marvel of "signal security" like the forthcoming General Instrument's "Digicypher". Presented here as just a curiosity.

In looking at examples and ideas representative of radio/electronic technology of earlier days it is interesting to note that the concepts behind them are also behind technological innovations of our own time, the difference being that today we have superior realizations of those concepts, primarily having been brought about through the solid-state and computer revolutions. In radio design, the advantages of "up-conversion" and "stepped bandspread tuning" (e.g., in one megahertz increments) were recognized as early as 1932, the first practical realization of it being the Barlow Wadley circuit which became a commercial reality in the 1950s, with the concept, by means of digital frequency synthesis, being further developed into the receivers (except for some low priced portables) that we have today.

Now wouldn't it be nice, thought someone, circa 1936, to be able to read CW (Morse Code) messages without having to know the code. That's cheating, of course, and really contemptable, any old Ham would say, but surely an appealing thought to many SWLs in both those and later times. Computer technology, of course, has made possible devices that will provide CRT or hard copy read out of non-voice

modes of information transmission, opening up a whole exciting new area of monitoring for the radio reception hobbyist. But over 50 years ago, the CW illiterate and, more positively, those wishing to learn the code could make use of the "paper 'tape' recorder" below:



Some of the numerous applications for the tape recorder for code signals are here shown. It is ideal for the beginner as he can now reproduce the signals he taps out on a practice key and in this way actually "see" his mistakes.

The device, connected directly to the audio output of a communications receiver, will, when a CW transmission is being received, produce a paper tape upon which are the dot and dash tracings of Morse Code. "To the ordinary listener, unacquainted with radio code, a whole new world of exploration is opened up. Now, for the first time [those famous words], the actual translation of code signals is brought within the reach of all, Even the listener who does not know code can decode the recording on this tape by reference to a standard code table."

Of course the process would be a little slower than the instantanious electronic readout techniques we now have. But your codeless correspondent could still use it.

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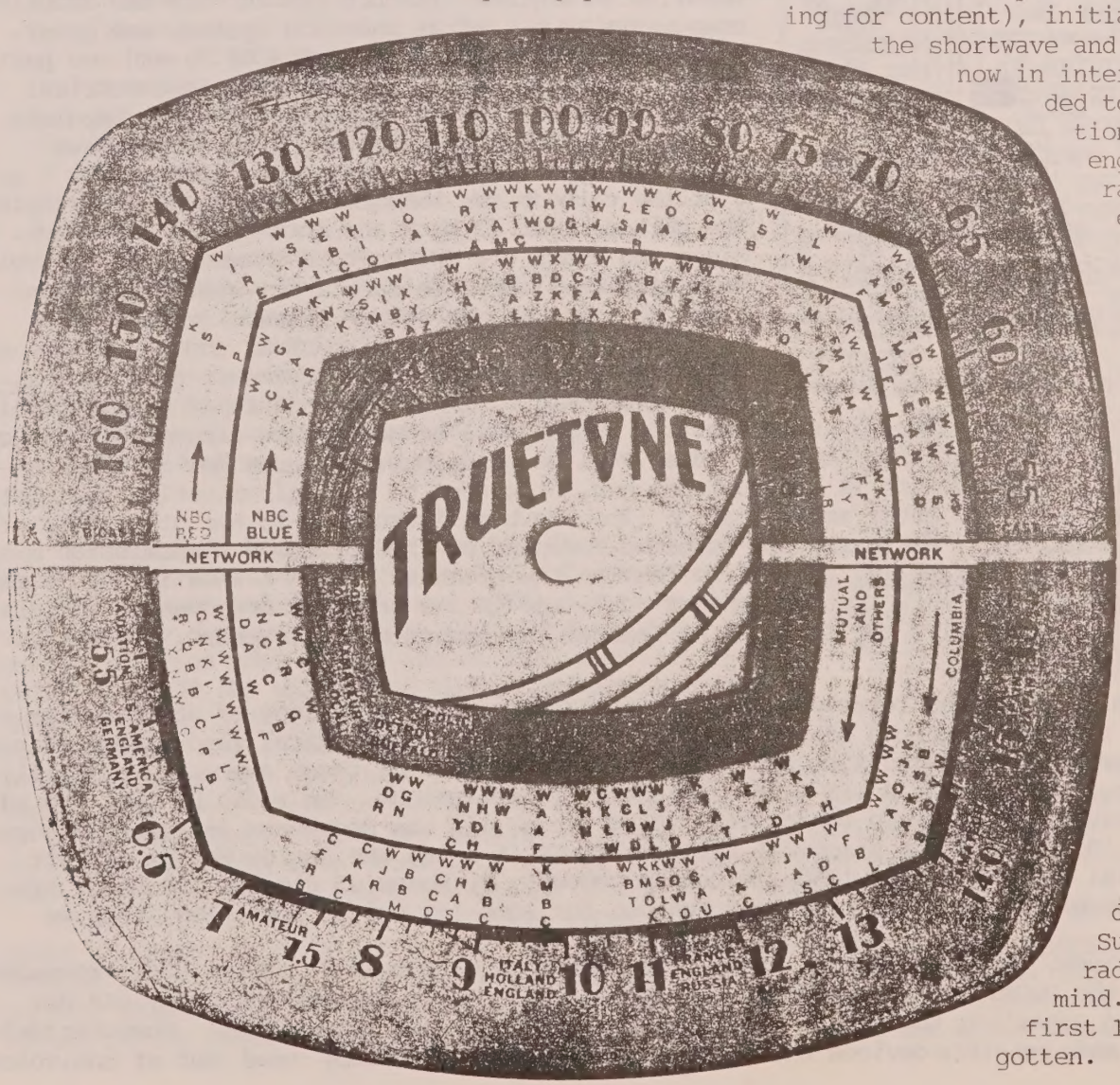
AND WHAT IS SO SPECIAL ABOUT THE OLD RADIO DIAL (guess it's now old enough to be called "antique") reproduced below? - wish it could have been in colour. For the reader, other than its obviously being old, probably nothing. But for the author of these remarks it is very significant - BECAUSE THIS IS WHERE IT ALL BEGAN - that is, my many years' interest the radio reception hobby (DXing and listening for content), initially being devoted to the shortwave and medium wave bands, and now in interest having been expanded to include the RF emanations from some of those engines in the sky. The radio was one of the models being sold by the Western Auto Stores circa 1936-38, having been built by a private label manufacturer. Glass tubes, tuned RF stage (6D6), one IF stage (6D6), p-p audio (2 42s). Can still stare at this dial and remember the world that was opened up to me - a sort of experience that was, of course, hardly unique to me in those days - which is why it merits being talked about. Would you believe that to this day I still have a very occassional dream about listening to this radio? (Sick, sick?) - Such was the impression radio made on my young mind. It's not unlike one's first love - never to be forgotten. Despite the markings on



the dial, we never heard (or recognized that we were hearing) India, China, Java or Baghdad. The countries indicated as broadcasting in the 49, 31, 25 & 19 meter bands were generally accurate. The radio didn't cover 16 meters, which I found frustrating when stations would announce 16 meter frequencies. "Broadcast Band" coverage was to 1720 kHz. Frequency numbers and markings on the dial were red agianst a gold background. As for the call letters on the dial, NBC Red and Blue Network stations are in the appropriate colours, CBS stations are purple and "Mutual and Others" are green. Since the radio was manufactured prior to the 1939 expansion of the "Broadcast Band" from 1500-1600 kHz, no stations are shown above 1500 kHz, and stations above 700 kHz are generally on somewhat lower frequencies than those stations occupy today. Some of the stations shown no longer exist or have undergone call latter changes. Most notably, among the former, is the disappearance of WEAF, New York (660), then the "flagship" station on the NBC Red Network, and for many years therafter the "flagship" station of the NBC Radio Network, with the call WNBC (believe WRCA was also used for a while). WNBC left the air forever a couple of years ago, the 660 frequency now being occupied by New York all-sports station WFAN, a descendent of WHN, New York, which operated on 1050 kHz. The once mighty NBC Radio Network, which, with the Red & Blue Networks, once provided two complete network programming services, exists today only as one of the Mutual/Westwood news services. CBS and ABC - the latter was the NBC Blue Network before being sold off by NBC in 1944 - still retain their radio networks as as news services. Two significant call letter changes - to reflect network ownership - were made. NBC Blue Network "flagship" station, which appears on the dial as WJZ, became WABC when the Blue Network became independent of NBC, becoming the American Broadcasting Company. But in order for this to occur, the already existing WABC (on the dial), which was the "flagship" station on CBS, concurrently became WCBS.

Needless to say, I could go on ad nauseam, boring you still further in regard to all of the marvellous entertainment & information that emanated from the speaker while I was staring at this dial. Even today, at a late evening hour like those of yore, I can stare at the 49 meter portion of the dial and hear - and hear - from that speaker in the mind - Radio Berlin's Karl Spenser reading "Today's Official German War Communique". Germany (Germany that was the 3rd Reich) is still there just as the dial shows, as is "England" - don't you hear with me, looking at the dial, but "tuning" just a bit from Berlin, the BBC European Service being covered by the German jammers (three tones in rapid succession - similar to the "warble" jamming heard recently from the Middle East)? And how can I convey to you (for a few further examples) the pleasauntness of staring at the potrion of the dial marked "FRANCE/ENGLAND/RUSSIA" - a shade below the 12 mark (Megacycles per Second - we didn't have Megahertz then) and hearing, as I did on winter afternoons back in '43, that powerful signal from Radio Brazzaville pounding in modulated with scratchy recordings of "La Mer" or "Prelude to the Afternoon of a Faun" (which constituted my first acquaintance with Debussy?) Radio Brazzaville (11.970 MC/S) was the voice of the Free French (DeGaulle) during the period of German occupation. A memorable broadcast was the one of the day when Paris was liberated, with many playings of "The Last Time I Saw Paris". The puppet government's voice, "Ici Vichy", put in a good signal mornings on the 19 meter band. And if I look intently at that portion of the dial marked "ITALY/HOLLAND/ENGLAND" (between 9-10 MC/S) [never heard "Holland", as "Happy Station" PCJ had disappeared from the airwaves - German occupation - before I was doing any listening] - if I look, I can hear again my first hearing of that raucous laugh-like sound followed by "Good morning America, this is Australia Calling. This is Australia calling on VK-2ME..." In my naivete about SW I was surprised that stations as far away as Australia and the French and Belgian Congo [Radio Leopoldville] could come in as well as they did. And I don't recall having ever heard "Radio Center, Moscow" on 25 meters (as the dial is marked) - tho' RNE was on 12.000 MC/S through the 1930s - but heard them at times early evenings on 19 meters. Audio was telco quality - indicating a transmitter site of some distance from the studio. The "thrill" of Moscow broadcasts was to hear the announcer's "Death to the German invader!" at the end of news bulletin.

Yes, folks, I'm the "kookaburra" bird everybody's talking about! If you have a good sensitive receiver and tune carefully you'll hear my voice over VK2ME —the "voice of Australia."

BUT YOU CAN'T HEAR HIM TODAY EVEN IF YOU HAVE A NRD-535.

Possibly I heard a lot that I didn't know I was hearing. The radio, which was the family radio, deteriorated during the war, it's major defect being a poor bandswitch - wouldn't maintain contact. Any significant SW reception was just about impossible in the latter days of the war. So the equipment available to me as well as my considerably less than formidable knowledge/abilities in the area of SWLing meant that I was hardly in the same league with the "professional" DXers of the time. Indeed, in comparison to theirs, my listening experiences are hardly worth mentioning - but the excitement over my dial discoveries - as few and unremarkable as they may have been - was genuine (and I didn't have that many hours of access to the

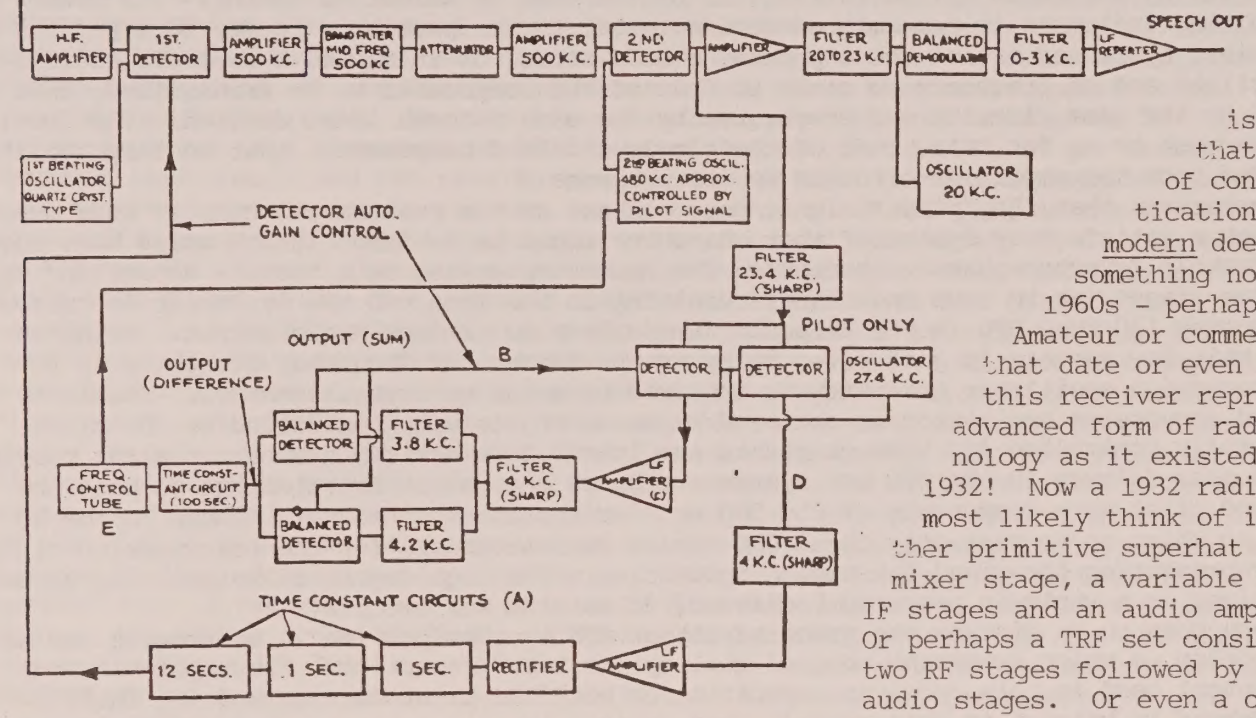
radio, which was being primarily used by the family (including myself) for medium wave listening. After all, this was in that time frame known as the "Golden Age of Radio", and the domestic networks with so many news broadcasts - including those "commentators", each putting his particular expertise and "spin" on the war news - meant much medium wave listening. SWLing had to be worked around "standard broadcast" listening and my father frowned on late night listening as "wasting electricity", but I did sneak in some.

Actually a fairly tight schedule of radio listening was followed each day, the radio being on almost continuously from about 7:00 am until after the 10:00 pm news commentary - following which I would go to Radio Berlin at least for a while. I would usually try to catch some of Radio Berlin's early morning broadcast to N.A. on 19 meters. At 9:00 am it would be Radio Australia. This would be followed by some BBC and Vichy listening. (What was the "interval" used on the BBC's "North American Service"? It was B-B-C sounded on a piano.) At 11:00 am it was off SW to a local in order to hear the "cheerio" man, ultra-conservative Boke Carter, with his "review of the economic, political and military news of the day". At 12:00 noon, it was another Mutual commentator, Cedric Foster. At 12:15 the gregarious local radio personality, Ted Grizzard, did his "Man on the Street" program - which he had to do in the studio during the war years - used to drop by sometimes to watch this brilliant gabber at work. Following Ted's program there was a locally read newscast made up of United Press dispatches. The only local radio station then was WLAP, a 250 watter on 1450 kHz, although WHAS in Louisville and WLW in Cincinnati, so far as reception was concerned, were "locals" - and these were the stations we listened to for the great CBS and NBC radio shows of the day. WLAP became a Mutual affiliate in the late '30s, leaving it for the newly organized Blue Network in the mid-40s (carried programming from both for a while). From 1:00 pm to 4:00 pm or so, it was Soap Opera time, one of which, the domestic comedy "Vic and Sade", was of such a quality that the writer of these daily ten minute sketches, Paul Rymer, can be spoken of in the same breath with Ionesco. After the soaps, my mother turned the radio over to me again, just in time for "Jack Armstrong, the All American Boy", whose adventures in far away places like New Guinea or Peru or Tibet was conducive to some geographical awareness among the young listeners of the time. Following Jack I could try to make the old band switch work again to catch Radio Berlin's 4:50 pm sign-on, which was followed by an hour in German. But at 5:45 pm it was back to medium wave (WLW) for Lowell Thomas, a news commentator, tho' not a profferer of interpretation & opinion, but whose animated style, skill in presentation and sometimes irrepressible sense of humor, made him the greatest news reader of all time (it was almost impossible for him to read a story from someplace he had not been, thus providing a story a first-person sense of awareness). At 6:00 pm it was the most popular radio program of all time, the one about some very funny prople who happened to be black, "Amos 'n' Andy". Following A&A most nights it was in some ways the <u>same</u> program, but with a cast of characters from rural Arkansas, although the portrayal of their way of life had an authenticity about it that could not be said to have been the case with respect to blacks as presented in A&A. That program was "Lum & Abner" (you could read my appreciative essay on L&A if you were subscribed to <u>Airwaves</u>, the newsletter of the YESTERDAY USA SUPERSTATION - $10 per annum for 6 issues: from YESTERDAY USA, 2001 Plymouth Rock, Richardson, TX 75081). At 6:45 pm it was time for the "dean" of American news commentators, Hans von (H.V.) Kaltenborn. After H.V. it was off to Berlin again (jiggling that damned band-switch to make some kind of contact) for the news bulletin and the programming to follow. The rest of the evening would probably be a switching back & forth between SW and MW, the latter for whatever big network shows might be on that evening. Or maybe I wanted to listen to some classical music on WQXR, only 10 kw then, but it was clear channel. Sunday night in the 1940s was the big night for radio comedy with Jack Benny, Fred Allen and the Bergen/McCarthy shows. Sunday afternoons, we "young men of culture" listened to the N.Y. Philharmonic (CBS-WHAS) and the NBC Symphony under Toscaninni (NBC-WLW). Sunday mornings it was "Invitation to Learning - Columbia's Discussion of Great Books", chaired by Dr. Lyman Bryson. Remember on one program hearing an elderly, curmudgeonly, Edgar Lee Masters, author of the famous <u>Spoon River Anthology</u>, in a discussion with Bryson and Malcolm Cowley. Wonder if there are any extant tapes of these programs - which weren't part of any educational curriculum, but intended for the general listening public. At least, at a tender age, they made me aware of what some of the great books were, and what they were about. Certainly radio made it possible for me (and many others) to grow up in what would otherwise have been a milieu of even greater cultural deprivation. Does television perform the same function today? Possibly on certain specialized channels - <u>if</u> the "culturally deprived" watched them, which they don't - probably can't afford. But radio offered so much, as a general entertainment medium, available to everyone.

Recently I ran across the drawer which was in the table on which the Truetone radio sat. In it were scribblings, mostly indecipherable, except for some station call letters: WOOC, WOOD, WNBX, WRUS, WGEO, WLWO, WLWR, WBOS, WKRD - which were all privately owned stations (CBS, NBC, GE, CROSLEY) carrying VOA programming. Also there is OTC (Leopoldville), DXJ. DXL (Berlin), VK2ME (Australia) and, surprisingly, I2RO - don't remember listening to Rome. Find the word "Associated", which evidently refers to the Associated Broadcasting System, a West Coast private SW broadcaster. "2.88" refers to a 120 meter frequency the BBC used to N.A. "Whittaker" was Bing Whittaker, the Canadian presenter of "Radio Newsreel". Undsoweiter. None of this very impressive, I admit. Self-indulgence. Think I'll look at the dial some more. Memories, the most pleasaunt DXing /

radio equipment forum

LOREN COX, JR 1106 CLEVELAND AVE LEXINGTON, KY 40505



THE BLOCK DIAGRAM at the right is of a receiver that is obviously one of considerable sophistication. Really looks <u>modern</u> doesn't it? Surely something no earlier than the 1960s - perhaps a very advanced Amateur or commercial receiver of that date or even later. Actually, this receiver represents the most advanced form of radio receiver technology as it existed in the year - 1932! Now a 1932 radio, as we would most likely think of it, would be a rather primitive superhat consisting of a mixer stage, a variable HFO, one or two IF stages and an audio amp & output stage. Or perhaps a TRF set consisting of one or two RF stages followed by a detector and audio stages. Or even a one or two tube regenerative set - certainly the most popular with home radio experimenters of the time: afforded the most performance at the least cost. The "most" radio one would likely think of as representing that date would be an early Scott, or a Lincoln, or the Pilot Seper-Wasp, which, by incorporating a short-wave converter with its separate dial, made it very likely the first dual conversion receiver, with IFs of 550 kHz & 175 kHz for shortwave. (Presumably for SW reception the "broadcast" portion of the receiver was tuned to 550 Khz and the SW converter switched in.) The Pilot Super-Wasp cost 99½ depression dollars. The SW converter was available as a "stand-alone" to be used with other receivers for $39.50. But "For those who wish to go into serious short wave reception of broadcasts or code or for experimental purposes, the NATIONAL SW-5 THRILL BOX is recommended" reads a 1932 National ad. Another item from 61 Sherman St, Malden, MA, was a shortwave converter, which, like the Pilot, had 2-gang tuning and IF amplification. (Because of tube noise RF amplification ahead of the mixer was usually not employed in SW superhet designs of the time, even in sets like Hammarlund's "Comet Pro" or McMurdo Silver's first "Masterpiece"; but the increaing problem with images made preselection/RF tuning-amplification a virtual necessity in any serious receiver as the '30s went on.)

In any event, nothing on the consumer/SWL/Ham radio market in 1932 even remotely resembled in circuitry the receiver block-diagramed above. So it goes almost without saying that what we have here is a commercial receiver of some sort - which it is, being a receiver specifically designed for SSB radiotelephony. Not really sure I understand everything that's going on with all of the pilot carrier detection, frequency control & AGC timing circuitry, but it's a dual conversion superhet (1st IF 500 kHz, 2nd IF 20-23 Khz) with a crystal controlled 1st conversion oscillator (at least they didn't have frequency synthesis, as would be employed today) - evidently a crystal being employed for each received frequency. Audio demodulation is by means of a balanced detector/BFO (later called a "product detector"). Audio output is limited to 3 kHz on the high end - for speech response.

The major difference between the commercial SSB systems used in transoceanic telephony and the methods of SSB transmission & reception that came to be used by Amateurs in the 1950s, was the use in the former of a "pilot carrier". As explained in the article (from which the above receiver diagram came), "Single Side-Band Transmission on Short Waves" by C.H.W. Nason (<u>Short Wave Craft</u>, Feb.-Mar. 1932), "It is essential that the re-supplied carrier must not vary in frequency from that of the original carrier [which has been removed] by no more than 20 cycles [Hz], plus or minus, if speech quality is to remain acceptable. Such a demand is easily met in the case of wire-line carrier current appratus, such as employed in multiplex telephony, and is also readily obtained in transoceanic radio telephony at the frequencies employed on the transatlantic links. As students of commercial short-wave work will probably know, the Madrid-Buenos Aries link operates at a wavelength of 15 meters or 20,000 k.c. [kHz]; at which frequency the required stability would be of the order of one

part in a million. Such excellence in oscillator design is possible in the laboratory, but not under the rigorous conditions of the field. [Remember, this was 1932.]

"The answer has been found in the transmission of a 'pilot' wave, either of the same frequency of as the suppressed carrier, or at some other frequency close to the range covered by the transmitted sideband; so that it does not appreciably broaden the width of the transmitted band. The system not only involves the control of the local oscillator at the receiver by means of this pilot wave, but the frequency of that oscillation must remain reasonably constant during such periods (as may occur) in which the controlling influence [pilot carrier] is obliterated by selective fading. The manner in which this controlling influence is transmitted is immaterial to the problem - it may be a portion of the original carrier, by-passed around the suppressing modulators, or it may be a separate oscillation of high stability and of frequency so close to that of the components to be transmitted, that it will be amplified by the same circuits and propagated by the same antenna if so desired. The level of this pilot wave must be so far below that of the single-sideband components, that an inappreciable load will be placed upon the amplifier circuits by its presence."

The author emphasises that the "pilot" signal does not act as the re-inserted carrier (for demodulation), "although a satisfactory system of that character might be devised" (which would have some similarities to Drake's "synchro-phase" detector). The receiving system is a "triple detection" type - with 2 conversion stages (as we have indicated) resulting in the final 20 kHz if, which is "mixed" with the low frequency (20 kHz) BFO in the balanced demodulator to produce audio output. Using an IF/BFO frequency this low results in good selectivity in the former and frequency stability in the latter. First conversion oscillator stability is achieved by means of crystal control. Stability in the 480 kHz 2nd conversion oscillator is achieved by means of its being controlled by the pilot signal. The carefully controlled AGC time constants are intended to achieve a constant pilot carrier level. "The band pass-filters in the 500 kc. system are broad enough are broad enough to pass the single sideband and pilot wave-components of the 500 kc. (or thereabouts) signal. Those in the 20 kc. circuits are so sharp as to pass only the 3,000 cycles band necessary for the transmission of the single sideband representing [bearing] the speech modulation. The high degree of selectivity necessary for the receiver as a whole is procured [achieved] in this 20 kc. circuit.

The author then goes on to discuss the great advantage SSB systems provide in overcoming the selective fading problem, a major deterrent to good quality shortwave reception. The sophisticated automatic gain control used in this receiver, operating on both the pilot carrier and the intelligence bearing sideband is helpful in this regard. And using a locally generated carrier for demodulation in the third detector (a balanced type) eliminates the selective fading distortion which occurs when a transmitted carrier and sidebands exhibit different fading rates. With only one sideband and a constant carrier (locally generated) sfd no longer presents a problem. And we have learned that treating all AM transmissions as if they were SSB transmissions - made possible with today's very selective, high stability, receivers equipped with "product detectors" - greatly improves the intelligibility & fidelity of shortwave broadcasts. Reception of a SSB (suppressed carrier) signal with accompanying pilot carrier (3.47 kc. removed from the phanthom carrier) on an "ordinary" receiver "will give 'inverted' speech - displacing about 400 cycles from normal inversion. It may be received, however, with an oscillating detector tuned to the frequency of the suppressed carrier."

We hope you may have found this glimpse of radio receiver technology of another day - 60 years ago - in its most sophisticated form of interest. And remember, it was all done with vacuum tubes! We don't know to what extent - if any - SSB w/pilot carrier circuits are still being employed for transoceanic radiotelephony. The technique is no longer required for frequency stability. And satellite & cable are available for traffic that once required HF transmission.

BUT ENOUGH OF TEMPORIS ACTI. Not having a SW portable radio, when Radio Shack recently had a sale on the DX-440 (reduced to $140.00 -5¢), we decided to purchase. This was about the best price we had seen on a receiver as well regarded as this one - also sold as the Sangean ATS-803 - has been. We thought this might be a closeout price, that RS were discontinuing this receiver, but that appears not to be the case, as it is in the 1992 (#472) Catalogue for the increased price of $199.95. However, RS are introducing a new "top-of-the-line" portable, called the DX-390 in the Catalogue (tho' there seems to be some question about the model number, as well as availibility), price $239.95. Since the DX-440(ATS-803) has been on the market for some time, and has been well reviewed, we will not undertake an extensive review here. Overall, we would have to say the performance is most commendable. Potential sensivity (we'll explain what we mean by that in a moment) is quite good; selectivity (2 position) is good for a portable; audio quality is good (the speaker is larger than the one in my R70); and frequency stability is what one expects from today's frequency synthesis circuits. Receiver "drift"/instability - thermal, mechanical - is a problem now virtually non-existent even in low priced receivers. Besides covering the complete LF-HF spectrum from 150 to 29999 kHz, the '440 also covers VHF-FM from 87.5 - 108 MHz, with multiplex stereo of excellent quality available from the headphone jack (best utilized with good quality 'phones). Tuning on LF-HF is in precise 1 kHz increments, either via the tuning knob or slewing buttons, with frequency readout to 1 kHz. Unfortunately, there is no RIT/fine tuning for each 1 kHz "range". No handicap for broadcast listening; would make SSB/CW tuning easier - instead, an old-fashioned "BFO pitch" control is employed for

SSB/CW fine tuning. And, of course, frequency is selectable by direct keyboard entry. A modest 9 frequencies can be stored in the memory. The receiver will also scan (in 5 kHz increments) the various SW broadcast "meter bands": 120 thru 11 (scaning on MW is in 10 kHz increments; on VHF-FM in 100 kHz increments).

As for performance: On the telescopic "whip", sensitivity is something less than outstanding; adequate only for the stronger signals (presumably to be expected). But, as we said, the receiver's potential - or potential useable - sensitivity is quite good. Attaching an external antenna (the receiver has an internal/external antenna switch) makes this evident. However, as is usually the case with receivers of this type, attaching an external antenna has untoward consequences: overloading, stations appearing at frequencies far removed from where they are supposed to be. But these deficiencies can be overcome. We have been connecting the external antenna (a 50' "long wire") to the receiver by means of a Panasonic RD-9820 Antenna Coupler (5 tuneable ranges from .5 to 30 MHz with 5 matching positions): and the results have been excellent: permits maximum utilization of the receiver's sensitivity (claimed by the mfr. to be 4 uv for 20 dB SNR [AM] on the SW bands). And Medium Wave preformance with respect to maximum utilization of sensitivity is also quite good. Really "pulls 'em in" (better than our intentionally-desensitized-on-this-band-because-the-RF dynamic range-isn't-good-enough R70). The external antenna connector is an RCA (phono) jack, which will accomodate an adaptor to a PL259, making possible the connection of RG type cables from antenna couplers/preselectors. We don't feel that amplified preselectors would be of much advantage (unless using with a short indoor antenna - a "whip") because of the receiver's already good sensitivity; enhanced "front-end" selectivity/tighter antenna coupling for a small range of frequencies being all that is really needed. Obviously this means that the receiver can be made to perform at its best only in "fixed" rather than portable use. RF dynamic range on VHF-FM leaves much to be desired, but provides excellent stereo listening (headphones only) on the only "arts" station in the area, WEKU-FM. At the $139.95 price we would say the DX-440 was an excellent buy, having several virtues and no serious faults. Actually a bit too large & heavy (when loaded with batteries) for the ultimate in portability. A recording output jack would have been desirable. Would rate the receiver a good buy even at the higher price ($179.95 - $199.95 - the current price range for the ATS-803/DX-440, depending on the dealer). But as an ECSSive machine the receiver is definitely not to be recommended (no product or synchronous detector); SSB is trickey to tune, but the receiver's good stability will hold a signal once tuned.

SINCE THE USES WE SEE of antennas such as the LILA are in conjunction with portable receivers, we have wondered about the use of these antennas with "tabletop" receivers normally connected to outside antennas, long wires, trap types or whatever. MIKE VILLARD tells us that, indeed, this type of antenna can be used with these receivers, often to good advantage, especially in high-noise areas. He says: "Loops greatly cut down local noise of most kinds, especially when the loops can be operated horizontally as well as vertically, as can the LILA along with maybe a little tilting to optimize interference rejection. The loops are especially important in the 2- to 6-MHz range, where local interference is usually miserable. [Evidently was not the case 60 years ago: an old Ham once told me that in 1932 he could work Florida from this area on 160 meters in the daytime! - 1c.] To cannect a LILA to your receiver, all that is required is a small coupling loop, perhaps 4 or 5 inches in diameter, inside the LILA and coplanar with it. It can feed a coalial cable which runs to your receiver's input. In my experience such loops can make a very large difference in reception. By rotating and tilting them one can at least fight back against interference!" [including the electrically generated type from computers, power lines, etc.]

FROM OUR CORRESPONDENT "ROSS SIGNAL": first, re his observations in RIB 139 about batteries and the Lowe-225: "If any reader is tempted to fit rechargable batteries in a HF-225 as I described, I neglected to say that the AC Adaptor should NOT be left charging the battery continuously. The Lowe owners manual mentions this, but not prominently. Charging for 2½ to 3 times the number of hours the radio was in use will give a full recharge - any overcharging beyond that, I believe, will shorten the batteries' lifetimes; and I don't know enough about this to say whether a disasterous meltdown is also possible!"

Second, in regard to "synchronous" detectors: "You raised the question of whether PLL "synch" circuits 'have a higher threshold of acceptability than other [detector] designs.' I can only speak about the Lowe circuit, but it seems to operate well even on the feeblest signals I can discern in normal AM mode. Even in conditions when the "Lock" indicator (an "L" on the LCD display) is winking on briefly every few seconds, the Lowe circuit is smart enough to hold on the last tuning rather than drifting off and creating obnoxious growling sounds.

"Even with very weak signals the overall 'readibility' of the audio is generally better in AM synch mode than in normal AM: the synch circuit seems to take the 'edge' off of any static and electrical noise that's present, while making the station's audio sound more "forward" and fuller. However you do lose the ability to slightly off-tune away from an interfering station. Admittedly, the cleanest audio on a weak station is probably achieved with ECSS tuning and the 4 kHz filter, but this is pretty fiddling and usually introduces a flutter of phase mismatch. So I'd say the AM synch cir-

cuit is still a valuable option to have."

As we understand it, there are several approaches to "synchronous" detection, one of which is the phase-locked loop. Maybe someone could enlighten us with sample circuits. Evidently the PLL SD provided for the Lowe has a good weak signal threshold. Mr Magne, in his review of the Drake R8 (MT, Sept.'91) - he confirms that this is unquestionably the finest receiver that ever came in at a shade under a kilobuck; he gives it very high marks in all areas but "ergonomics" - remarks on the performance of its SD, of which he says, "Sometimes it helps, sometimes it doesn't...It loses lock briefly every now and then - you'll hear a slight rumble - but quickly regains it. Of the various synchronous detectors we've tested over the years, only those of the Liniplex F2 receiver and the Sherwood SE-3 accessory work better." Don't know if the Lowe is among those tested. We - the "we" in this instance mostly being my brother - once attempted to construct a PLL SD using a NE561 chip (no longer available), to be driven by the 500 kHz IF output of a Collins 51J. Worked pretty well on strong signals, but didn't seem to want to respond to weak ones. Possibly not doing something correctly, but didn't try again.

A REVIEW OF THE DRAKE R8 RECEIVER BY GUY ATKINS

I've had my Drake R8 for three days now, and here are some of my initial impressions. I had the opportunity to compare it side-by-side for an entire evening with a Drake R7 and a JRC NRD-515.

PHYSICAL/ERGONOMICS: At first I was really bugged by the itty-bitty rubbery push buttons... what is this, a Spark-o-Matic $99 car stereo??! Over the days, however, I grew to like their soft-touch feel. It remains to be seen if they can stand up to continued use, especially the lettering on the buttons and the internal switch contacts. Call it old fashioned, But I gravitate toward real he-man switches that have a solid mechanical feel to them...something you can squirt contact cleaner into if it begins to act up. The only switches of the "modern era" I respect are like the quality, high-MTBF contacts used in the FET switches on the Kiwa Electronics MAP unit. [The push-button switches on the Drake ESR1250 satellite receiver we have are operable with a very precise & positive atction - 1c.]

I have a MAJOR dislike of the tuning knob; it would be the first thing I'd replace. Perhaps I was spoiled by the classy, custom tuning knob on my old NRD525 (even the stock '525 knob is a dream compared to the R8's). Anyway, it's too small, lightweight, and easily bumped when adjusting other nearby controls. [Probably the best tuning knob ever was the gear-reduction tuning knob used on some versions of the Collins 75A4; may have been an option. R8 tuning knob sounds similar to the one on our recently acquired DX440; no comparison to the hefty one on our auncient R70 - 1c.] I would have liked the R8 in a case 10% larger to give better spacing between controls. However, I REALLY like the implementation of variable-rate tuning on this radio. When you spin the knob with zest, it doesn't go off into turbo-space; the higher tuning rate is sufficiently fast for my liking, but not TOO fast. Although on the small side, I'm impressed with the feel of the dual-function knobs like the VOL/RF GAIN, SQUELCH/PBT, and TONE/NOTCH.

Now let's talk about the R8's pitiful excuse for a metal case! I can't believe Drake would sell any of their products with a cabnet so flimsy. Just a slight press of the top flexes it a surprising amount. It is VERY thin. I'd be willing to pay $35 more to Drake just for a metal cabnet worthy of the name Drake. The bottom and rear panels of the receiver are of decent thickness, however. [Evidently Drake are saving their metal for their satellite receivers, the ones we have (commercial) being housed in sturdy aluminium (yellow chromate) dustcovers with even sturdier aluminium front panels. No doubt Drake's intention with respect to materials used in the construction of the R8 was to make it possible to meet the under one kilobuck price. Today's soild-state receivers use only a small percentage of expensive materials like steel & aluminium as compared to the old VT "boat anchors"; the cost of production of those types of receivers today would be almost prohibitive - 1c.]

The green, back-lit LCD display initially reminded me of a cheap-o clock radio, but I'm now used to it. It DOES give the operator a lot of information in an easy-to-read fashion. It's taking some sdjustment getting used to frequency entry in and display in MEGAHERTZ rather than kilohertz! I'd like to see a second decimal point shown between the 1 and .1 kHz spots like the NRD-525's display.

Some other egronomic/operational difficulties include the default selection of bandwidths and AGC settings based on MODE. I'd rather choose my own combinations all the time rather than have the receiver do it for me. This is something easily remediable in the next version of the ROM chip if Drake engineers so desire. Fortunately, all settings are independently selectable now, but you still have to start out with whatever Drake thinks you ought to be using.

Along those lines, I don't like having to cycle through all modes just to get to the one I want. It would be nice to have a future ROM chip revision that allows the user to "lock out" seldom used modes, such as FM (which really blasts your ears with distorted audio when you cicle through it while listening to an AM or SSB station). I have the same gripe about having cycle through the OFF AGC setting when all I want is to go from FAST to SLOW. (The NRD525 has the same problem, too.)

[The probable reason for this is to permit one button to perform several functions. Again, referring to the Drake ESR1250 satellite receiver, a number of settings (video bandwidth, audio bandwidth, video demod operation, etc.) all have to be cycled through to get to the one that is desired. Makes many operating parameters selectable with a minimum of buttons. No particular operator problem on equipment like this in its usual use in Cable & broadcast operations, where the controls will be set up and left as they are for long periods. But something of a hassle when one does a lot of tuning around where settings have to be changed, certainly the case in SWLing - lc.]

The point to all of this is: when DX is really hopping, and that sought-after ID may be coming up at any moment, cycling through unwanted modes and settings takes up precious moments that may distract from or obscure a bit of audio at a critical time. Nit-picky? Yes, but I don't like the receiver to get in the way of my DXing.

PERFORMANCE: OK, now we're to the best part! In a nutshell, this radio really cooks, and the audio quality smells great, to boot! [Interesting metaphor: pleasantness of aroma for pleasantness of sound - lc.] Here's a receiver that will easily equal the R5000's audio, I'm sure [especially considering that the latter lacks SD - lc]. It simply sounds great; the R7 and the NRD-515 audio can't even come close. [We remember when Mr Magne extoled the audio quality - when teamed with a quality speaker - of the R7, and the NRD-515 has not been considered a slouch in the matter of audio quality - lc.] The R8's built-in speaker is the best internal type I've ever used, and when connected to an external speaker like the Kiwa MAP's or a Radio Shack Minimus series it is even better. [How would good quality broadcast material sound going first to a stereo synthesizer and thence to one's hi-fi system - taking the receiver's audio from the recorder output - lc.]

The R8 essentially equalled the DX performance of the R7 and NRD-515. We tried the trio against all sorts of tough-signal sutuations. There were isolated cases where one receiver had an edge, but generally they were neck-and-neck in the DX race (the '515 was occasionally at a disadvantage because it lacks a notch [filter] control).

I really like the performance of the R8's Pass Band Tuning (PBT) control...it can make a dramatic difference in signal intelligibility. In my opinion it is at least equal and likely superior to the R7's vaunted PBT (except the R7 allows the user to "slide" easily from one sideband to the other; it takes the mode key to accomplish this on the R8).

The R8 is a very quiet receiver, continuing the Drake R7 tradition. I suspect this is due to the inherently quiet LCD display, very good internal shielding and the EXTENSIVE ground plane grids on EVERY circuit board in the R8. To me, the R8's internal construction quality looks excellent in all regards.

The five bandwidth filters perform very well, especially in conjunction with the PBT. The widths of 6.0, 4.0, 2.3, 1.8, and .5 [kHz] are well chosen.

The R8's synchronous detector is at least as good as Sony's ICF-2010 synchronous detector. It can change a muddied signal into a clearer, less distorted one, It has surprised me by being able to lock on to quite weak DX signals. Only once do I recall that the detector lost lock on a weak signal, resulting in a wandering het as it tried to regain lock. [A bad scene should this occur just as one of those elusive IDs was being given; but maybe the signal might not even be audible on a lot of other receivers; speaks well of the detector threshold performance - lc.]

I feel the R8's AGC characteristics are well chosen for AM mode signals. It does not blank the receiver for 2-3 seconds as the NRD-525 does in SLOW AGC.

For me, the bottom line on the R8's performance will be decided next weekend when I take it out to the Washington Coast for a few hours of seeking out international MW DX and tropical band SW DX with the R8 connected to a 1000+ ft. Beverage antenna. If the R8's filters can dig out the MW DX like my NRD-525 did with its 1.8 kHz Collins filter, then I'll be truly impressed, and very likely won't take advantage of Drake's 15 day return policy.

So, in the area that matters most when judging a radio, the actual reception of stations, the reception of weak stations, the reception of stations under difficult receiving conditions, that reception being of the best quality possible under the widely varying circumstances that are the vagaries of shortwave reception, early estimates of the R8 appear most favorable indeed, the only places for improvement being in the areas of ergonomics and the means of manipulating the modes of operation. The review by Mr Atkins is via * SW ECHO *.

THE SERVICE MERCHANDISE chain are offering two SW portables: the Magnavox AE 3805 for $99.94 and the Sony ICF-7601 for $119.97. (via JOHN NORFOLK, OK.)

MORE ON THE JPS NIR-10 DIGITAL SIGNAL PROCESSOR: From ELTON BYINGTON: "A couple of months ago I posted the results of some tests I did on the jbs communications model NIR-1o digital signal processing unit. [I have subsequently learned] of an EPROM change for the NIR-10 that adds an automatic multi-notch filter as well as other enhancements.

"From the description...the new NF mode will eliminate multiple heterodynes within the unit's passband, when the NIR-10 is in its 'NIR' mode. It uses the gizmo's BANDWIDTH switch (not normally used in the NIR mode) to select the notch filter.

"For background, the NIR-10 is a true DSP device that digitizes the audio you feed into it, then uses DSP to eliminate the noise spikes and accentuate voice frequencies. It also has a very sharp audio bandpass filter mode that has band edges like the face of a cliff.

"The new EPROM - which costs $15 by mail or $30 if you want JPS to install it - widens the wide filter to 1800 Hz from 1500 Hz, making it more useful for voice listening. (The original, 1500 Hz, bandwidth was a little too narrow for voice, but serves beautifully for RTTY reception.)

"...JPS is planning to introduce a new product, the NF-60, which will incorporate the MultiNotch filter. No price [as yet] for this unit.

"Info from: JPS Communications, Inc., Box 97757, Raleigh, NC 27624-7757. Phone: (919)790-1011 (info), (800)533-3819 (orders). Fax: (919)790-1456." [*SW ECHO*]

MORE ON THE R8 - just heard on "Media Network" (19-20 Sept): The "Media Network" estimation of the R8 is less that enthusiastic, determining that it has less "performance value" than the Kenwood R-5000; too expensive for the European market, the price being not that much less than the NRD-535, presumably still the sine qua non of receivers. Ergonomics were criticized - as per the Atkins review above - two few buttons performing too many functions resulting in the necessity of cycling through various settings of whatever to get what one wants. JM remarked that this appeared to be a carryover from Drake's satellite receiver designs (we indicated a similarity with the ESR1250 in regard to operation). The IF filters were deemed good, but it was pointed out that the operator must retune by means of the bandpass tuning control in order to overcome loss of gain as succeeding filters are switched in (the PBT cannot be switched out). A strong oscillation at 100 kHz means reception is is not possible at that frequency and somewhat above. (Does the R8 have any response below 100 kHz, as would be necessary for tuning the full unclamped baseband output of satellite receivers? Having both SSB & FM demodulation facilities, the receiver would have potential for such use, tho' no reception would be possible in the area of 100 kHz - especially if it will provide response - as does our R70 - below 100 kHz.) The receiver was criticised for not providing automatic frequency offset for RTTY: must detune from carrier center the appropriate number of Hz. Sensitivity was determined to be a good 1.3 uv (presumably for 10 dB S/N+N ratio, the usual figure but not stated) on SW and only slightly worse on MW - AM mode, 6 kHz bandwidth. The RF dynamic range (6 kHz bandwidth) was determined to be 80 dB; the higher figure of merit given in Drake's claimed performance specifications is for a 500 Hz bandwidth (90 dB). The pre-amp is active only on ranges above 5 MHz. (The NRD-515 had no pre-amp at all; not sure anout the NRD-535.) The synchronous detector is slow to lock on to weak signals (requiring 1 - 3 seconds). Can't select LSB or USB in the SD mode (as can be done with the NRD-535), thus can't attenuate interference by selecting the clearer sideband (can't the PBT facility be used in these interference situations? - thought that was what it was for). The "S" meter is deemed to read too low on weaker signals, too high on strong signals. The SD was not preceived as doing much to help selective fading distortion on weak signals. Frequency stability was determined to be extremely good: at least that's how we describe a drift factor of no worse that 1 Hz per hour. (Query: with frequency stability that good, and assuming a BFO of equal stability, wouldn't good old "non synchronous heterodyne detection" yield results very comparable with those achieved with synchronous detection? [and with the advantage of sideband selection].) We believe that covers the high points of the "Media Network" review. Being shorthandless could't copy for full reproduction here, and a bit too long for tape starting/stopping to copy in longhand. Believe RNW offers printouts of their reviews. We would probably like to have a R8, but not convinced it would really do that much more for us than does the old R70 (would anyone have any interest in purchasing our R70? - still as good as the day it came out of the box). (There seem to be no end to the wants of the "radio poor": We WOULD like to have a R8 [handling those "ergonomics" could be a nice challenge]; but we "need" a new C-band "dish" and would love to have the Panasonic AG-W1 World Standards VCR ["only" $2500"].)

WHAT WAS "THE BEST TOY I EVER BOUGHT FOR THIRTY BUCKS"? According to EARL BOEBERT (via *SW ECHO*/KIRK BAXTER) it was the Pomtrex radio ("Good first SW for a seventh grader"):

DESCRIPTION: The unit is about the size of a large paperback, black, with a telescoping whip antenna, a dc in jack, earphone jack, and a carrying strap. The earphone jack is 1/8" monoral, so you need a stereo/mono adapter to get sound out of both sides of walkman-style earphones. Battery compartment in the back holds 4 AAs in a pretty awkward arrangement: running off a seven buck Radio Shack dc converter is handier, and gives somewhat better reception [a phenomenon we have observed in using battery or AC adaptor powered radios: does the power line induce addidional signal pick-up? - 1c.] Front panel is ½ speaker grille and ½ controls/display. Controls are on/off, SW/LW/-AM/FM select, SW 1-6 band select, volume , and hi/lo treble control. An analog tuning knob sticks out the side

Displays are a tuning LED that lights up for strong signals and a slide rule frequency display which is both crude and nearly unreadable; but it doesn't matter (see METHOD OF OPERATION).

Frequency coverage is as follows: FM:88-108 MHz; AM: 530-1600 kHz; LW: 150-280 kHz; SW1: 5.85-6.20 MHz; SW2: 7.10-7.50 MHz; SW3: 9.45-9.90 MHz; SW4: 11.50-11.95 MHz; SW5: 15.10-15.55 MHz; SW6: 17.45-18.00 MHz. The above numbers are nominal and not actual; WWV is detectable most times at the high end of the SW3 band.

METHOD OF OPERATION: Takes a little getting used to. The selector switches have about 1/16" movement between detents and and their position is best detected by feel (i.e., click to one end and then count the clicks to where you want to be [talk about "ergonomics"! - lc]). Tuning requires a fair set of old-fashioned analog fingers (the kind that grew up tweaking pots); the tuning knob is relatively slop-free and lends itself to this kind of treatment. Easiest mode is to dial slowly through the bands searching for something interesting. If you want to find a specific station, the best way is to think of the dial as divided into 18 zones (e.g., SW1 high, SW1 middle, SW1 low, etc.); put the slider in the zone and tune slowly around until you find what you're looking for or give up. With earphones on the volume control is *very* sensitive [presumably to degree of rotation -lc].

PERFORMANCE: (Note: this report is based on tests in a laboratory whose sole equipment is one pair of ears [aren't they, after all, the ultimate determiner of satisfaction in regard to any aural exposure -lc]). I listened with earphones and using the [AC to] DC apapter, which gives a ground [one explanation of somewhat enhanced reception, especially on lower frequencies - lc]; when listening casually I use the telescoping antenna and when I want to do some serious DXing [that wasn't in quotes - lc], I string a Radio Shack portable SW antenna from the top of a door to the top of a window in a second story room in the residential section of Minneapolis.

Over the past six weeks I have logged the following English-language SW stations: Australia, Austria, both Chinas, Japan, BBC, VOA, WWCR, WRNO, HCJB, Moscow, Germany, France, Israel, Netherlands, Switzerland, Spaon, Canada, Monitor Radio [CSM], something in the Caribbean that I didn't listen to long enough to identify, a bunch of religious stations that I can't stand to listen to long enough to identify, Cuba, and a couple of numbers stations. Plus a ton of stuff in Spanish. Most nights, just tuning through the and counting readable signals in all languages, I get 30 to 50 stations. Strong ststions will "splatter": on some nights Monitor Radio occupies just about all of the SW3 band. Yet if you tune slowly and carefully enough, the receiver will "lock" onto even relatively weak stations in the middle of the "splatter". Relatively little drift; turn it off when tuned to a station, turn it on the next night and the signal is right there. All in all, pretty amazing for thirty bucks. [The Hallicrafters Sky Buddy (S-19R) sold for $29.50 - in 1940.]

AM and FM are more than adequate; nothing but noise on the LW band.

Final evaluation: Just the thing to get kids of all ages started in SW. Reminds me of the old Heathkit I built in the 1950s, except a lot smaller and cheaper. May even get me motivated to string some wire from a tree and see what that brings in! Anybody for a very low cost DX club? (No receivers over thirty bucks allowed.)

In reading this, we couldn't help but think of an an SWL explorer back in the 1930s fiddling with a home-built Doerle - that cheapest of all means of doing some SWLing. Bet the boys back then would have looked upon this $30 marvel with great interest, if not awe. Of course, the use of relay stations increases the potential for reception of some of the broadcasters logged above, but still it's a good list: one a Doerle user, or even a Sky Buddy user, could have been proud of. The Heathkit SW receiver kit Earl refers to was a radio on the order of a Sky Buddy, or its post-war version, the S-38. Not a bad radio of its type; no RF stage, but coils of good "Q". Probably didn't have the propensity for overloading that might be expected from the Pomerex. But we like the idea of a "cheap radio" DX club - maybe radios under $100 - tho' reporting frequencies would have to be a bit imprecise in nearly all instances.

Mentioning the S-38 above reminds me that its excellent steel cabnet would meet the approval of Mr Atkins - indeed, the R8 would almost fit in it.

Any radio - however inexpensive - that's good enough to get someone - young or old - interested in/even excited about shortwave listening is, for that someone, a "good" radio.

NRD-535 UPGRADES (via TOM SUNDERSON [*SW ECHO*]): 1) THe original CLF-D8 (8 kHz) WIDE filter installed in some early NRD-535 receivers will be replaced with the CLF-D6S (5.5 kHz) filter. This improves AM selectivity and reduces loss of lock during ECSS [SD] operation. 2) ROM set version "D" replaces replaces "B" and fixes some minor software bugs related to the RS-232C interface. This is not required if the user does not make extensive use of the RS-232C interface. 3) The second printing of the NRD-535 Instruction Manual is now available. The manual has been completely rewritten and is highly recommended. THE UPGRADES ARE AT NO CHARGE TO THE RECEIVER OWNER. Contact Paul Lannuier at JRC-NY, 430 Park Ave., New York, NY 10022. Phone: (212)355-1180. Fax: 9212)319-5227.

WHICH, WE SUPPOSE, IS ABOUT ENOUGH of our little admixture of the new and the old in radio reception devices. In case anyone has ever wondered, a continuing interest in the latter is the reason for the "v" for "u" in "Equipment" in the title of this column. Although it is a little awkward - we may change it. At our advanced age, radios that really don't seem all that "old" to us will seem positivly ancient to younger readers, those who have grown up in the solid-state/computer era. The (to us) great old "boat anchor" vacuum tube receivers of the '30s, '40s & '50s may be only "curiosities" at best, quaint forms of radio that couldn't be of much interest beyond that which obtains to almost anything if it is old enough. But these radios <u>really</u> <u>did</u> <u>work</u>, and depending on the degree of complexity & engineering (of which the receiver with which we began this column is the foremost example) could work very well indeed.

CLOSE ENCOUNTERS OF THE RADIO SHACK KIND. In early August, gh reported on WOR that Radio Shack had introduced a new SW portable, the Realistic DX-380, in Canada. A couple of weeks later the new Radio Shack catalogue was released here in the US and on page 51 the following description of a radio with the model number DX-390 appears [trying to suggest R-390, that number designation of a most revered radio? - lc]: (this page is from John Norfolk, OKC, rec'd 21/9/91)

> Our finest-ever SW portable! Continuous 150 kHz to 29.999 MHz AM/SSB-CW coverage and local FM stereo. Memory provides one-touch tuning for 18 SW stations, and nine each on AM, FM, and LW. Adjustable pitch BFO [as per the DX-440] lets you hear Hams and other services using SSB voice and CW (code). LCD displays frequency, modes, dual times. Has scan tuning, clock-radio wake and 'sleep" auto-shutoff, AM bandwidth and RF-gain controls, 4" monoral speaker. [Very similar to the DX-440 with respect to these features.] Jacks: stereo headphone, external antenna and DC power. [Still no recording jack.] Requires 3 "AA" and 4 "C" batteries or AC or DC adapter. Catalogue number 20-214, price $239.95.

In mid August, the manager of my local Shack told me after making a call that the radios were "still on the water" - that is, they had not yet arrived at the warehouse. When they did, they would have to go through "QC" - quality control - which usually takes about two weeks. He explained that QC would take samples at random and check them. If one turned out to be defective, they would go back and start checking each unit, and if more that a certain percentage didnt pass - I can't remember the exact figure but I believe it was somewhere between 15 and 25 percent - the entire shipment would be sent back to the supplier (in this case, Sangean). But since the radio was already available in Canada, he didn't expect any problems.

Early in September, he said that he was told that they were in the warehouse and would be available around the end of the month. On September 9, a clerk checked the store computer, and said that, the radio should have been in the store by that time. He said that RS divided their stores into three categories: High Priority, Medium Priority, and Low Priority, and since they were a "Medium Priority" store, they would not be one to get part of the first shipment. He also pointed out that the computer gave the model number as the DX-380.

During the next two days, I called various stores trying to get a definite release date. The responses were varied, from "any day now" to "a couple of weeks" to "the end of the month" [sounds like the song & dance we used to give customers when they wanted to know where their backorders were - & we cou;dn't tell 'em the truth - that the company was on credit hold with the mfr. - lc] to "I don't know," then on September 10 one store said they had a paper that gave the release date as December 30! The local Shack said they didn't have that paper, but said they would check.

On September 16 I found myself confronted by someone I had never seen before wearing a badge that said "manager." Since Radio Shack tends to change store managers more often than I change my socks, I was not surprised. I asked him if he had a release date for the new shortwave receiver, and he said that he was unaware that Radio Shack was bringing out a new shortwave receiver! Fortunately, the clerk knew me and said that the sheet showing the release date as December 30 finally came in. RS's in-house literature refers to the radio as the -380 (but with the same catalog number, 20-214), so the catalog's DX-390 number is probably a misprint [so no one was trying to associate with the R-390] - the manager did say that the new catalog had "more than a few" of them. Of course, the December 30 date could be a misprint as well, but at this time it's all I have. Question: are they delaying the introduction of this radio in order to sell out the DX-440, which was discontinued last year only to be reinstated last spring? Is the -440 still available in Canada? More later as the comedy continues...

Actually, we think what we have here is an example of how large corperations operate. Sometimes hopeless inefficiency accompanied by very poor communications. But for a little coordination... John continues on another matter:

> GRUNDIG DEALERSHIP IN OKLAHOMA CITY: This was first mentioned on WORLD OF RADIO in gh's April Fool's program, but no foolin', Daniel Alexanian, the owner of Classical Recordings in Oklahoma City, is now selling Grundig shortwave radios! Checking with Cindy Alexanian on September 17 (making sure I've got my facts straight), she said they did not have any radios in stock but they do have brochures on what is available and can get them, subject to availability from the distributor, within one week. I personally have prepared for Classical Recordings a shortwave information sheet - based on the ones gh once sent out to listeners for a SASE - for them to distribute. It contains a UTC/Central Time conversion chart, times and frequencies for five DX programs (WORLD OF RADIO, MEDIA NETWORK, SW MERRY-GO-ROUND, DX PARTY LINE and R. Japan DX CORNER), frequencies for the BBC and MOscow, and info about publications such as RIB, DXLD, WRTVH, and others. So far, there has been no problem keeping them stocked with these sheets (they are updated when necessary), but in late August, at about the time of the coup attempt in the Soviet Union, there was a sudden demand for them and they were temporarily out of print for a couple of weeks. Classical Recordings is at 7602 N. Western, Oklahoma City, OK 73116, Telephone (405) 842-2533. /Guess they would send you one of John's info sheets for a SASE./

BROADCASTS IN ENGLISH (audible in N. America)
compiled by JOHN NORFOLK

AFGHANISTAN R. Afghanistan
1830-1930 C 15440 11830 9635

ALASKA KNLS
1300-1400 C 7355

ALBANIA R. Tirana
0230-0300 B 11825 9760
0330-0400 B 11825 9760

ARGENTINA RAE
0200-0300 D 11710 (Tue-Sat) #0100 during DST? C

ARMENIA R. Yerevan
0350-0400 C 11790 #7400 et al for winter

AUSTRALIA R. Australia
0000-0400 B 21740 17795
0400-0700 B 21740 17795 15160
0700-0730 B 21740
0830-1300 A 9580
1300-fade B 11720 9580 #+9860, 13745
2130-2400 B 21740

AUSTRIA R. Austria Int'l.
0130-0200 B 13730 9875 9870
0330-0400 B 13730 9875 9870
0530-0600 A 6015
0630-0700 A 6015
1130-1200 C 15430 13730 11780 6155
1330-1400 C 15450 11780
1530-1600 C 21490 13730 11780 6155

BANGLADESH R. Bangladesh
1230-1300 C 15208

BELGIUM BRT
0030-0055 B 13710 13665
1230-1255 C 21810 (Sun)
1400-1425 C 21810 (Mon-Sat)

BHUTAN BBS
0900-1000 D 6035 (Sun)
1415-1500 D 5025 (Mon-Sat) #C in WNAm?

BRAZIL R. Bras
1200-1250 C 11745 #believed to last 80 mins

BULGARIA R. Sofia
0400-0615 B 17825 15160 11720
1830-2000 C 17825 17780 15330 11765 11720 11700
2045-2130 C 17825 17780 11765 #9 & 7 ex-17 & 15?
2245-0100 B 17825 15370 15110 11660 9700

CANADA CFCX Montreal #now CIQC on MW
24 hours C 6005

CANADA CFRX Toronto
24 hours C 6070

CANADA R. Canada Int'l.
0000-0130 A 9755 5960 (Sun-Mon -0200)
0100-0200 B 13720 11940 11845 9535 (Sun-Mon)
0200-0300 B 13720 11940 11845 9755 9535 (Tue-Sat)
0400-0430 C 11925 9505
0615-0700 B 9750 6150 (Mon-Fri)
1300-1400 B 17820 11855 9635 (Mon-Fri)
1400-1700 B 17820 11955 (Sun) #+9625 N Quebec
1500-1530 B 21545 (17820 15315 13650 Mon-Sat)
1600-1630 B 21545 (17820 15325 13650 Mon-Sat)
1700-1730 B 21545 17820 15325 13650
1800-1830 B 17875 15325 15140 11945
1800-1830 B 17820 15260 13670 (Sat-Sun -1900)
1900-1930 B 17820 15260 13670
2000-2100 B 17875 15325 15140 13650 11945
2130-2200 B 17820 15150 11880
2200-2230 B 13650
2200-2300 B 11945 9760
2300-2330 B 13670 11730 9755
2130-2200 B 17820 15150 13670 11880
2200-2230 B 13670 11905 9755 5960
2300-2330 B 11940 9535 (Sat-Sun -2400)
2300-2330 B 11730 9755

CHINA R. Beijing
0000-0100 B 11715 9770
0300-0400 B 11715 9770 9690
0400-0500 B 11840 11685 #not on 11840
0500-0600 B 11840
1200-1300 B 15450 15225 11660 11600 9530 #C
1400-1500 B 15165 11855 11815 #C

COSTA RICA AWR
1100-1300 B 11870 9725
2300-0100 B same as 1100

COSTA RICA Radio For Peace Int'l. (NAE)
0000-0330 B 21465s 15030 13630 7375s
0330-0600 B 15030 13630 7375s
0600-1200 B 15030 7375s
1200-1300 B 15030 #7375 AM lately, and 13630 inactive
1300-1800 B 21465s 15030
1800-2400 B 21465s 15030 13630

CUBA R. Havana
0000-0200 A 11950 #+5965
0200-0400 A 15140 11950 #5965 ex-15140
0400-0500 A 15140 11950 11760 5965s #6000 ex15140
0500-0600 A 11950 11760 5965s #+6000
0600-0800 A 11750 #once but normally 11760; to 9?
1900-2100 B 17705 -C

CZECHOSLOVAKIA R. Prague
0000-0030 B 11990 11685 7345 #9540 ex-11685
0100-0127 B 11685 7345 5930
0300-0330 B same as 0100
0400-0430 B same as 0100

ECUADOR HCJB
0030-0430 A 21455s 15155 9745
0500-0700 A 15155 9745
0700-0830 B 17790 15270 11835 #6 & 9 ex-17 & 15
0730-1130 B 11925 9745
1130-1200 B 11925
1200-1630 B 21455s 17890 15115 11925
1630-1730 B 21480 21455s 15270 (Sat-Sun)
1730-1800 B 21480 21455s 17790
1900-2000 B 21480 21455s 17790 15270
2130-2200 B same as 1900

EGYPT R Cairo
0200-0330 C 11865 9475 #11865 unconfirmed

FINLAND R. Finland
0230-0255 B 11715 9560 #11755 not 11715
1230-1255 B 21550 15400 (Mon-Fri)
1330-1355 B same as 1130 #1230
1400-1445 B 21550 15400 (Sat-Sun)
1430-1455 B same as 1130 #1230

FRANCE R. France Int'l.
1230-1300 B 21645 21635 17650 15195 11670 9805
1400-1500 B 21770 17650 11910
1600-1700 B 17850 17795 17620 15360 12015
11705 6175

GERMANY Deutsche Welle
0100-0150 A 11865 9770 9640 9610 9565 9515 6145
6085 6055 6040
0300-0350 A 9770 9705 9640 9545 9535 6120 6085
6055 6045
0500-0550 A 9690 9670 9535 6120 6055 6045 5960
1500-1550 C 21600 17765 17735 13610 11965 9735
2100-2150 B 15350

GREECE V. of Greece
0130-0140 B 11645 9420 9395 #-0155; Mon-Sat
0340-0348 B same as 0130
1235-1250 B 17525 15650 15625 #15550 not 15625
1530-1540 B 17535 15630 11645 (Mon-Sat) #15550 17525
2335-2345 B 12015 11645 9535 9425 #Sun-Fri
#12105 not 12015, no 9535

GUATEMALA TGNC
0300-0430 C 3300 (Sun 2345-)

HUNGARY R. Budapest
0300-0400 B 11910 9835 6110

ICELAND Rikisutvarpid
0730-0745 C 9625 6110 3295 (Mon-Fri) #9265

INDIA All India Radio
1000-1100 C 21735 17895 17387 15050
1330-1500 C 15120 11760
1800-2000 C 15360 11935
1830-1930 C 11860 9950
1845-1945 C 11620 7412
2045-2230 C 15265 11715 11620 9950 9910 7412
2315-0115 C 17830 15145 15110 11745 11715 9910

IRAN R. Tehran
0030-0130 C 15260 9765 9022

ISRAEL Kol Israel #15640 not 17575
1430-1455 C 17590 17575 11605 11587½ (Sun-Thu)
1800-1815 C 17575 15590 11605 11587½ #15640 not last 3
2000-2030 C 17630 17575 15640 11675 11605
11587½ #7465 9435 not 17630 15640
2230-2300 C 17575 15640 15100 11605 11587½
9435 #7465 11675 not 15640 15100

ITALY RAI
0100-0120 B 11800 9575

JAPAN R. Japan
0300-0400 A 5960
0500-0600 B 17825 #11870
1100-1200 C 6120
1400-1600 B 9505
1700-1800 C 9505
1900-1930 C 9505
2300-2400 B 17810 11735

KOREA NORTH R. Pyongyang
0000-0050 C 15115 13760 11335
1100-1150 C 11335 9977 6576
2300-2350 C 13650 11700

KOREA SOUTH R. Korea
0000-0100 B 15575
0600-0700 C 15170 11810
1130-1200 B 9650
1215-1315 B 9750

LITHUANIA R. Vilnius
0000-0030 B 17690 17605 15180 11790 #7400 ex-11

LUXEMBOURG R. Luxembourg
24 hours C 15350

MALAYSIA V. of Malaysia
0555-0825 C 15295 9750 6175

MONACO TWR Monte Carlo
0740-fade B 7240

MONGOLIA R. Ulan Bator
0910-0940 D 12015 11851
1200-1230 D 12015 11851 (except Tue & Fri)

NETHERLANDS R. Nederland
0030-0125 A 11835 6165 6020
0330-0425 A 11720 9590
0730-0825 B 11895 9630
0830-0925 B 11895 (Sun-Fri)
0930-1025 B 11895 (not 17605
1430-1525 C 17605 17575 15150 #17580 13770 13700
1830-1925 C 21685 17605 15570

NETHERLANDS ANTILLES TWR
0300-0400 A 11930 9535
1055-1257 A 15345 11815 (Sat -1400, Sun -1332)

NEW ZEALAND R New Zealand
0630-1200 B 9700
1200-1800 C 9510 [World Cup coverage] #now over?
1800-2200 C 15120
2200-0630 B 17770

NIGERIA V. Of Nigeria
0500-0700 C 7255

NORWAY R. Norway Int'l.
0000-0030 B 9645 (Sun-Mon)
0100-0130 B 9605 (Sun-Mon)
0200-0230 B 9605 (Sun-Mon)
0300-0330 B 9645 (Sun-Mon)
1200-1230 C 25730 21695 (Sat-Sun)
1300-1330 C 25730 9590 (Sat-Sun)
1500-1530 B 21730 15230 11870 (Sat-Sun)
1700-1730 C 9665 (Sat-Sun)
1900-1930 C 17730 15220 (Sat-Sun)

1600- 15360 NAE

2100-2130 C 9590 (Sat-Sun)
2300-2330 C 11925 (Sat-Sun)

PAKISTAN R. Pakistan
0230-0245 C 21730 17725 17640 15115 9545
0800-0845 C 21520 17870 #NAE
1100-1120 C 21520 17870
1600-1630 C 21580 21480 17725 17555 15605 13665
1700-1800 C 15550 11570

PHILIPPINES FEBC
0000-0230 C 15480
0900-1100 C 11685 9800
1300-1600 C 11685

PHILIPPINES R. Filipinas #Pilipinas
0230-0330 C 21580 17840 17760

POLAND R. Polonia
2200-2255 C 7270 6135 5995

PORTUGAL R. Portugal Int'l.
0230-0300 A 11840 9705 9600 9555 (Tue-Sat)

ROMANIA R. Romania Int'l.
0200-0255 C 11940 11830 9570 9510 6155 5990
0400-0430 C same as 0200

SAUDI ARABIA BSKSA
1600-2100 C 9720 9705

SPAIN Spanish National R.
0000-0200 A 9630
0500-0600 A 9630

SOUTH AFRICA R. RSA
0400-0500 C 15440 11900 7270
1000-1100 C 17835
1100-1200 C 11900 11860 9555
1500-1600 C 15270 7230
1600-1800 C 17840 15270 7230

SRI LANKA SLBC
1030-1130 C 17850 15120 11835

SWEDEN R. Sweden
0100-0130 B 11705 9695
0200-0230 B 11705 9695
1530-1600 C 21500 17870
2330-2400 C 11705 9615

SWITZERLAND Red Cross Broadcasting
0310-0327 B 12035 9885 6135 (Tues & Fri after last Sun)

SWITZERLAND Swiss R. Int'l.
0200-0230 A 17730 12035 9885 9650 6135 6125
0400-0430 A 13635 12035 9885 6135

SYRIA R. Damascus
2005-2105 D 15095 12085
2110-2210 D same as 2005 #also try 9950

TAIWAN Voice of Free China
0200-0300 A 11740 9680 5950
0300-0400 A 9680 5950
0700-0800 A 5950
2200-2300 A 11580 9852½ #now 2300-2400? No!

TURKEY V. of Turkey
2100-2200 C 9445
2300-2400 C 11710

UAE R. Dubai #Abu Dhabi
2200-2400 C 17855 15305 13605

UK BBC
0000-0230 A 15260 9915 9590 7325 6175 5975
0230-0330 A 15260 9915 7325 6175 5975
0330-0430 A 9915 5975
0430-0500 A 5975
0500-0730 A 9640 5975
0730-0815 A 9640
1100-1200 A 15220 9515 6195 5965 #not 9515
1200-1300 B 15220 9740 9515 6195 #not 9515
1300-1400 B 15220 9740 9515 6195 5965
1400-1430 B 15220 9740 #17840 ex-15220
1430-1500 B 15205 9740 #17840 ex-15205
1500-1645 B 15205 11775 #17840 -1615 not 15205
1645-1745 B 15070 11775 #also 15260 from 1600
1745-2000 C 15070
2000-2100 B 15260 5975
2100-2200 B 15260 9590 5975
2200-2300 A 15260 9915 9590 5975
2300-2400 A 15260 9915 9590 6175 5975

UK BBC Caribbean Service
2115-2130 B 21660 17715 15140 (Mon-Fri)

UKRAINE R. Kiev #17605 ex-17665 #7400 exl1790
0100-0200 B 17690 17665 15180 12005 11790 11675
0230-0330 C 9785 #5905
2200-2300 C 11790 5960

USA KVOH
2000-0100 A 17775

USA VOA/African Service
0300-0430 A 21600 17715 15115 11835 9575 7405 6035
0430-0500 A 21600 17755 17715 15115 9575 7405 6035
0500-0600 A 17715 15115 9575 7405 6035
0600-0700 A 17715 15115 9575 9530 7405 6125 6035
1600-2000 B 21645 17800 15580 15410 11920 9575
2000-2100 B 21645 21485 17800 15580 15410 9575 1545
2100-2200 B 21645 21485 17800 15580 15410

USA VOA/Ams
0000-0100 A 15205 15120 11695 11580 9775 9445 7405 6130 5995
0100-0200 A 15205 15120 11580 9775 9455 7405 6130 5995
0200-0230 A 15205 15120 11580 9775 7405 5995 (Tue-Sat)
1000-1200 A 15120 11915 9590

USA VOA Asian Service
0000-0100 C 17820 17735 15290 15185 11760 9770 7120
0100-0300 C 21550 17740 15250 15160 11705 7205

7115
1000-1100 C 15425 11720 5985
1100-1200 C 15425 15115 11720 9760 6110 5985
1200-1330 B 15425 15115 11715 9760 6110
1330-1400 B 15425 15115 9780 6110 #9760 not 9780
1400-1500 C 15425 15395 15205 15160 9760 9645 7125 6110
1500-1700 C 15425 15395 9760 9645 7125 6110
1700-1900 C 15395 9645 7125
1900-2000 C 15180 11870 9525
2100-2200 C 17735 15185 11870
2200-2400 C 17820 11735 15305 15290 15185 11760 9770 7210

USA VOA European Service
0200-0400 C 15160

USA VOA ME Service
0400-0600 C 15205 11825 7200 7170 6140 6040 5995
0600-0700 C 11825 11805 7325 7170 6140 6060 6040 5995
1000-1100 C 21615 21570 15195 15160 11740
1500-1630 C 15395 15205 9700 9645 7125
1630-1700 C 15425 15395 15205 11855 9700 9645 7125 6040
1700-1800 C 15395 15205 11760 9700 9645 7125 6040
1800-2200 C 15205 11760 9760 9700 6040

USA WCSN (NAE)
0000-0200 A 9850
0200-0400 A 9530 #9350 not 9530
0400-1000 A 9840
1000-1200 A 13770 (Sat-Sun)
1200-1400 A 21670 (Sat-Sun)
1400-1600 A 21670
1600-1800 A 21640
1800-2000 A 21545
2000-2400 A 15665

USA WHRI (NAE)
0000-0800 A 9495 7315
0800-1100 A 7355 7315
1100-1400 A 11790 9465
1400-1500 A 15105 9465
1500-1600 A (21480 Sat-Sun) 15105 9465
1600-1700 A (21480 15105 Sat-Sun) 13760 9465
1700-1800 A 21480 15105
1800-2300 A 17830 13760
2300-2400 A 13760 9495

USA WMLK (NAE)
0400-0700 B 9465 (Mon-Sat)
1700-2000 B 9465 (Sun-Fri)

USA WRNO (NAE) (schedule is erratic)
0000-0400 B 7355
0400-0600 B 7395
1600-2400 B 15420

USA WSHB (NAE)
0000-0200 B 13760 7395
0200-0600 B 13760 9455
0600-0800 B 9870 9455
0800-1000 B 13760 9455
1000-1200 B 9495 9455
1200-1400 B 13760 9495
1400-1600 B (15665 Sat-Sun) 13760
1600-1800 B 17555 15665 (Sat-Sun)
1800-2000 B 21780 (17555 Sat-Sun)
2000-2200 B 17555 13770
2200-2400 B 17555 9465

USA WWCR (NAE) #different pgms on each fq
0000-0100 A 12160 7435
0100-0500 A 7520 7435 #7490 ex-7520
0500-1100 A 7495 7435 #7490 not 7495
1100-1500 B 15690 12160
1500-2100 B 17525 15690 #17535 planned
2100-2400 B 15690 12160

USSR R. Moscow (via Cuba)
0000-0400 B 9720 9600
0400-0500 B 9600
1100-1330 B 9600
1330-2200 B 11840
2200-2400 B 9720

UZBEKISTAN R. Tashkent
1200-1225 C 17740 15460 9715 7325
1330-1355 C same as 1200
0100-0125 C 11975 9740

VATICAN Vatican R.
0250-0310 B 9605 7305

VENEZUELA R. Nat'l de Venezuela (time & length may vary)
0040-0055 C 9540 (Tue-Sun)
0340-0355 C same as 0040
1140-1155 C 9540 (Mon-Sat)
1440-1455 C same as 1140
1840-1855 C same as 1140
2140-2155 C same as 1140

VIETNAM V. of Vietnam
1000-1030 C 15010 12020 9840
1100-1130 C 9732 7416
1230-1300 C same as 1000
1330-1400 C same as 1000
1600-1630 D same as 1000
1800-1830 D same as 1000
1900-1930 D same as 1000
2030-2100 D same as 1000
2330-2400 D same as 1000

YUGOSLAVIA R. Yugoslavia
0230-0315 B 11885 9555
1230-1300 B 17740
1930-2000 C 15140
2200-2245 C 15140

NOTES # = annotations by gh in early November
Times are UTC; frequencies are kHz. All broadcasts daily unless otherwise indicated.
A: reliable; B: regular; C: occasional; D: rare. NAE: not all English. s: single sideband (usually upper; some with reduced carrier).
Some US religious broadcasters (i.e. WYFR, KTBN) are not included.
Schedules subject to change without notice.

SELECTED ENGLISH LANGUAGE "DX" PROGRAMS
compiled by JOHN NORFOLK

SUNDAY
0030-0040 Spain DX PROGRAM 9630 #DX SPOT?
0030-0100 WRNO WORLD OF RADIO 7355
0037-0042 BRT RADIO WORLD 13710 13665
0038-0130 HCJB DX PARTY LINE 21455 15155 9745
0110-0130 VOA COMMUNICATIONS WORLD 15205 15120 11695 11580 9775 9455 7405 5995
0113-0123 Deutsche Welle DXERS WORLD MEETING #or 0123-0133 (Sun after last Sat) 11865 9770 9640 9610 9565 9515 6145 6085 6055 6040
0130-0140 SPAIN DX PROGRAM 9630
0130-0200 RFPI WORLD OF RADIO 21465 15030 13630 7375
0140-0155 Havana DXERS UNLIMITED 11950 5965
0218-0228 Swiss R. Int'l SW MERRY-GO-ROUND 17730 12035 9885 9650 6135 6125
0238-0330 HCJB DX PARTY LINE 21455 15155 9745
0245-0255 Romania DX MAILBAG 11940 11830 9750 9510 6155 5990
0313-0323 Deutsche Welle DXERS WORLD MEETING #or 0323-0333 (Sun after last Sat) 9770 9705 9640 9545 9535 6120 6085 6055 6045
0320-0335 Budapest DX WORLD 11910 9835 6110 #6100?
0330-0340 TWR BONAIRE WAVELENGTH 11930 9535
0330-0355 Japan DX CORNER 5960
0340-0355 Havana DXERS UNLIMITED 15140 11950 #5965 ex-15
0405-0435 WWCR WORLD OF RADIO 7435
0418-0428 Swiss R. Int'l SW MERRY-GO-ROUND 13635 12035 9885 6135
0435-0530 WWCR SIGNALS 7435
0508-0600 HCJB DX PARTY LINE 15155 9745
0513-0523 Deutsche Welle DXERS WORLD MEETING #or 0523-0533 (Sun after last Sat) 9690 9670 9535 6120 6055 6045 5960
0530-0540 Spain DX PROGRAM 9630
0530-0600 WWCR CROSSBAND 7435
0540-0555 Havana DXERS UNLIMITED 11950 11760 5965 #6000
0730-0800 RFPI WORLD OF RADIO 15030 13630 7375
0740-0755 Havana DXERS UNLIMITED 11750 #11760
1130-1145 Austria SW PANORAMA 15450 13730 11780 6155 #-1155
1140-1157 Korea SW FEEDBACK 11715 #9650 instead
1255-1312 Korea SW FEEDBACK 9750
1330-1345 Austria SW PANORAMA 15450 11780 #-1355
1330-1400 RFPI WORLD OF RADIO 21465 15030
1430-1445 Australia COMMUNICATOR 11720 9580 #-1455
1530-1545 Austria SW PANORAMA 21490 13730 11780 6155 #-1555
1530-1555 Japan DX CORNER 9505
2023-2028 Israel DX CORNER 17630 17575 15640 11675 11605 11587½ #see B.I.E.
2130-2200 WRNO WORLD OF RADIO 15420
2230-2300 RFPI WORLD OF RADIO 21465 15030 13630
2253-2258 Israel DX CORNER 17575 15640 15100 11605 11587½ 9435 #see B.I.E.
2330-2340 Sofia SOFIA CALLING 17825 15370 15110 11660 9700 #7115 for winter?

MONDAY
0040-0057 Korea SW FEEDBACK 15575 #/21465 not 13
0430-0500 RFPI WORLD OF RADIO 15030 13630 7375
0530-0540 BBC WAVELENGTH 9460 5975 #9640 WAVEGUIDE
0630-0645 Austria SW PANORAMA 6015 #-0655
1030-1100 RFPI WORLD OF RADIO 15030 7375
1530-1600 WRNO WORLD OF RADIO 15420 #delete
1630-1640 BBC WAVELENGTH 15205 11775 #15260
1630-1700 RFPI WORLD OF RADIO 21465 15030
1930-1940 Sofia SOFIA CALLING 17825 17780 15330 11765 11720 11660

TUESDAY #WAVEGUIDE moved to Sat 0905
1115-1125 BBC WAVELENGTH 15220 9515 6195 5965
2030-2100 RFPI WORLD OF RADIO 21465 15030 13630
2040-2055 Havana DXERS UNLIMITED 11705 #17705
2340-2355 Sweden CALLING DXers (1st & 3rd Tues) 11705 9695 #sometimes other Tues too

WEDNESDAY
0110-0125 Sweden CALLING DXERS (Wed after 1st & 3rd Tues) 11705 9795 9695 #9765 not 95
0140-0155 Havana DXERS UNLIMITED 11950 #5965
0210-0225 Sweden CALLING DXERS (Wed after 1st & 3rd Tues) 11705 9695 #as above
0230-0300 RFPI WORLD OF RADIO 21465 15030 13630 7375
0245-0255 Romania FOR RADIO AMATEURS 11940 11830 9570 9510 6155 5990
0325-0340 Budapest DX NEWS 11910 9835 6110
0340-0355 Havana DXERS UNLIMITED 15140 11950 #BIE
0540-0555 Havana DXERS UNLIMITED 11950 11760 5965 #6000
0740-0755 Havana DXERS UNLIMITED 11750 #11760
0800-0830 HCJB HAM RADIO TODAY 17790 15270 11925 11835 9745 #6 & 9 ex-17 & 15
0830-0900 RFPI WORLD OF RADIO 15030 7375
1430-1500 RFPI WORLD OF RADIO 21465 15030
1540-1555 Sweden CALLING DXERS (Wed after 1st & 3rd Tues) 21500 17870 #as above
1930-2000 HCJB HAM RADIO TODAY 25950 21480 21455 17790 25270 #15270; 25950 inactiv
1930-1940 Sofia SOFIA CALLING 17825 17780 15330 11765 11720 11700
2330-2340 Sofia SOFIA CALLING 17825 15370 15110 11660 9700 #7115 for winter ex-17?

THURSDAY
0100-0130 HCJB HAM RADIO TODAY 21455 15155 9745
0115-0120 Prague DX SPECIAL 11685 7345 5930
0130-0140 BBC WAVELENGTH 15260 9915 9590 7325 6175 5975 #WAVEGUIDE
0300-0330 HCJB HAM RADIO TODAY 21455 15155 9745
0315-0320 Prague DX SPECIAL 11685 7345 5930
0330-0345 Budapest DX WORLD 11910 9835 6110
0415-0420 Prague DX SPECIAL 11685 7345 5930
0545-0555 Sofia SOFIA CALLING 17825 15160 11720
0752-0822 Nederland MEDIA NETWORK 11895 9630
0852-0922 Nederland MEDIA NETWORK 11895
0952-1022 Nederland MEDIA NETWORK 11895
1452-1522 Nederland MEDIA NETWORK 17605 17575 15150 #see B.I.E.
1852-1922 Nederland MEDIA NETWORK 21685 17605 15570

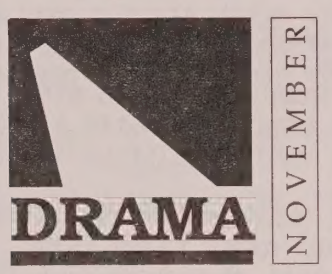
FRIDAY
0052-0122 Nederland MEDIA NETWORK 11835 6165 6020
0352-0422 Nederland MEDIA NETWORK 11720 9590
0430-0445 Australia COMMUNICATOR 21740 17795 15160 #-0455 or 0450 at least

1030-1045 Australia COMMUNICATOR 9580 #-1055
1250-1255 Yugoslavia RADIO HAM CORNER (bi-weekly) 21605 17740 17710
2100-2110 Sofia SOFIA CALLING 17825 17780 11765
2100-2130 RFPI WORLD OF RADIO 21465 15030 13630
2300-2330 WWCR WORLD OF RADIO 12160 #+Spacenet 3
2330-2340 Sofia SOFIA CALLING 17825 15370 15110 11660 9700 #7115 for winter?

SATURDAY
0245-0300 Portugal DX PROGRAM (tri-weekly) 11840 9705 9600 9555
0300-0330 RFPI WORLD OF RADIO 21465 15030 13630 7375
0310-0315 Yugoslavia RADIO HAM CORNER (bi-weekly) 11855 9555 # 11885 9550?
0325-0340 Budapest DX NEWS 11910 9835 6110
0545-0555 Sofia SOFIA CALLING 17825 15160 11720
0738-0830 HCJB DX PARTY LINE 17790 15270 11925 11835 9745 #6 & 9 ex- 17 & 15
0900-0930 RFPI WORLD OF RADIO 15030 7375
1130-1140 TWR BONAIRE WAVELENGTH 15345 11815
1407-1412 BRT RADIO WORLD 21810
1500-1530 RFPI WORLD OF RADIO 21465 15030
1908-2000 HCJB DX PARTY LINE 25950 21480 21455 17790 15270 #25950 inactive; 1909 etc
1930-2000 RFPI WORLD OF RADIO 21465 15030 13630
2040-2055 Havana DXERS UNLIMITED 11705 #1915-1930 on 17705 #2110-2130 VOA C.W. 15410
Start times & lengths may vary. Schedules subject to change without notice.
Airings of WORLD OF RADIO on WRNO may be preempted or delayed due to sporting events.
Times for SOFIA CALLING may vary widely from the above schedule
#annotations by gh in early November

NOVEMBER, pages 24-30

DECEMBER, pp. 31-33, 39



BBC WORLD SERVICE

PLAYS OF THE WEEK

Peer Gynt

(2 x 60 min)

Peer Pressure: Five days to record Ibsen's classic drama; five days to create Norwegian fiords, trollish caves, Saharan deserts and North Sea storms *(writes the director of Peer Gynt, Hilary Norrish).*

Five days to rehearse more than 60 speaking parts, including threadballs, lunatics, withered leaves and "shapeless shapes". Five days to unravel the eccentric, surreal fantasy that Ibsen has left us, which moves in an instant from lyric poetry to schoolroom doggerel.

On day one the company of actors and technicians are half-terrified, half-thrilled. We expect the very worst because we know the very best is possible.

The radio studio is filthy: blue plastic paddling pools filled with papier-maché muck become peat bogs and open marsh land. Twigs and bracken litter the floor, the walls are drenched with water.

Amid the mess stand **Geraldine McEwan** and **Robert Lindsay**. Unperturbed, they perform a scene of such clarity and emotion that we are suspended, spellbound. Ken McLeish, translator and adaptor, produces a handkerchief. We pass it round.

This is the courage and creativity of actors. Instinctively we know that this will be a recording to remember.

Henrik Ibsen's eccentric masterpiece spans four decades and two continents. Peer is a boaster, a yarn-spinner, in love with himself. He weaves a fantasy life into which he is increasingly dragged and finally ensnared.

The play traces Peer's entire adult life and revolves around his relationships with women: his doting mother Åse, his beloved Solveig, the mysterious woman-in-green and the seductive Egyptian Anitra.

The action leaps from hayloft to hillside, from treetop to tent, from a Cairo asylum to a ship in a storm. Peer rides imaginary reindeer, dances with troll kings, fights with monkeys, flirts with desert maidens and bargains with the devil for his soul.

His travels come full circle, back to the Norwegian mountain hut he left 40 years before, to find Solveig: still young, still waiting. Robert Lindsay stars as Peer, a man "true-to-himself-ish", with Geraldine McEwan as Åse. **Brian Blessed** plays the Troll King and **Maria Friedman** takes the part of Solveig.

● ***Suns 17th, 24th 0101 rep 1201, 1901***

Murder Most Foul

(6 x 30 min)

In this new series by John Scotney, real murder stories from the past are re-created from contemporary accounts.

The Surgeon's Knife: September 1935, and a gruesome find is made under a bridge near Edinburgh in Scotland: several parts of human bodies wrapped in newspaper. Each has been carefully but horribly mutilated. The newspapers lead the police over the border into England and the city of Lancaster, where a doctor's wife and their maid have disappeared recently ***14th***.

Cabin 126: A cruise liner in the tropics is the setting for the mysterious disappearance of pretty young actress Gay Gibson. One day the porthole of her cabin is found wide open, but of Miss Gibson there is no trace. Can anyone be charged with murder if there is no body? ***21st***

The Major, The Scone and The Dandelions: The quiet little town of Hay is an unlikely venue for a poisoning. But the deterioration and death of the wife of an eminent local solicitor is followed by a series of mysterious stomach upsets in the town. And everyone who suffers has taken tea with the dead woman's husband, Mr Armstrong ***28th***.

● ***Thurs from 14th 1130 rep 1715, 0230***

(Hulton-Picture Co)

The Surgeon's Knife: the murder trial at Manchester Assizes drew the crowds in 1936

FEATURES

NOVEMBER

It's A Funny Old World

(8 x 30 min)

Stewart Collins, late of the vocal group Cantabile, presents as much as can be packed into a mixed bag of humorous songs and sketches, from Hoffnung through Lehrer and Monty Python to Weird Al Yankovic!

● ***Weds until 27th 1530 rep Thurs 0030, 1030***

Lines In The Sand

(1 x 45 min)

Where has the Gulf war left the Middle East? How deep are the wounds? Is the prevailing mood one of reconciliation or recrimination? How has the conflict affected relations between the peoples and states of the region, and between the Middle East and the West?

Roger Hardy visits Egypt, Israel, Turkey and Kuwait in an attempt to answer these and other such questions *(see also After The War, page 4)*.

● ***Sat 16th 1901 rep Mon 0101, 1515***

The Learning World

(13 x 15 min)

Unemployed or unemployable: They used to hang around on the corner of the street, waiting for work that might never come. Now some of Britain's unemployed have a chance to get retrained and recover their self confidence.

But how far do training schemes for the long term unemployed succeed in getting older men and women back to work and able to hold down a job? **John Turtle** reports on such schemes, as well as on training and education worldwide.

● ***Mons 2205 rep Tues 0445 rep 0930***

Mediawatch

(12 x 15 min)

Media and communications technology is developing rapidly: **Keith Hindell** keeps us up to speed.

● ***Mons 2315 rep Weds 0815, 1515***

The Amazon Watershed

(3 x 30 min)

Another chance to join **George Mombiot** in the firing line on a hazardous assignment in the Amazon Basin, where ranchers clash with peasant farmers, the farmers clash with the Yanomani Indians – and the Brazilian army has its own plans.

● ***Fris from 15th 0730 rep 1215, 1930***

Seeing Stars

(2 x 15 min)

by Heather Couper and Nigel Henbest

★ As we write these words, we are lucky enough to be looking out over 30 kilometres of the English summer countryside.

From the top of a high mountain, you can see several times further still. But on a reasonably clear night, anyone can beat such records hollow, even from the centre of a city or the bottom of a valley.

Take a look at the Moon, if it is up tonight, and you are gazing at something that is more than a third of a million kilometres away. Towards the western horizon after sunset, you can spot a bright untwinkling "star". This is the planet Saturn, the most distant object in the Solar System that you can see with the naked eye.

You are now seeing an object at a distance of 1,500 million kilometres.

But the stars themselves are so far off that Saturn is virtually on our doorstep. The nearest bright star, Alpha Centauri - visible only from the southern hemisphere, low in the south this month - is 40 million million kilometres away.

Astronomers get as confused as anyone else by too many "millions" stacked together, so they use an easier shorthand for measuring distance - the light year.

One light year is the distance that a beam of light travels in one year, which is just under 10 million million kilometres. So we can say that Alpha Centauri is 4.2 light years away.

The light we see now from this star actually left it more than four years ago, back in 1987. (For comparison light takes only one and a half hours to reach us from Saturn.)

The brightest star in our sky, Sirius – now rising in the east late in the evening – is eight light years away. But many of the well-known stars are much further off. The Pole Star, which lies above the north pole of the Earth, is 700 light years from us, while Deneb, in the tail of Cygnus the Swan, is a staggering 1,800 light years away. The light we see from Deneb left it in the days of the Roman Empire.

We can see galaxies - groups of millions of stars - at even greater distances. If you are in the southern hemisphere, find two fuzzy patches in the southern sky, looking like detached parts of the Milky Way.

These are two nearby galaxies, the Large and Small Magellanic Clouds. The fainter cloud is 200,000 light years away.

But people in the northern hemisphere can see ten times further still. Almost overhead these evenings is a very faint blur of light: the giant Andromeda Galaxy, a collection of 400,000 million stars. It lies over 2 million light years away. The light we see now left Andromeda before there were human beings on the Earth.

● ***Sats 2nd, 30th 0130 rep 2205, Suns 0915***

Conflicting Opinions

(4 x 45 min)

In 1863 the British Prime Minister Lord Palmerston reputedly said of the Schleswig-Holstein question: "There are only three men who have ever understood it. One was Prince Albert who is dead; the second was a German professor who became mad; I am the third – and I have forgotten all about it."

One can forgive Palmerston his ignorance. Some issues seem to have been around so long that even the protagonists can no longer remember their underlying cause.

In *Conflicting Opinions* **Mike Bullen** *(right)*, aided by an eminent panel of experts, considers some of the world's most intractable problems and the factors that have made them insoluble. Each week they take a continuing conflict and trace its progress through time, on the premise that it is only by knowing the past that we can understand the present.

The series takes as its subjects Northern Ireland, Kashmir, Palestine and, concluding on a positive note, Cambodia.

● ***Sats from 23rd 1901 rep Mons 0101, 1515***

Colours

(4 x 30 min)

Blue is beauty, red's a token, green is grief and yellow's forsaken.

This Scottish proverb gives a definition of the three primary colours red, blue and yellow, and that blue/yellow hybrid green, but these four colours have been attributed as many shades of meaning as there are colours in the spectrum.

This repeated series takes these four colours one by one and examines their significance - where do you wear red for a funeral? Why sing the blues? Whose religion is green? For whom did yellow mean happiness?

Colours are significant in science and aesthetics, language and medicine, fashion and flags: *Colours* makes colourful listening.

● ***Suns from 10th 1401 rep 2330, Mons 0630, 1001***

FEATURES NOVEMBER

After The War Was Over

(8 x 15 min)

More stories of people whose lives have been transformed by the Gulf War: each programme focuses on an individual or family for whom nothing will ever be the same again.

The Jordanian economy depended on Iraq, a major trading partner. The figures of trade lost translate into ruin and bankruptcy for many Jordanian business people. **Lindsey Hilsum** talks to a family for whom the war meant the end of prosperity.

In Kuwait, while many people remain wealthy a transformation has occurred in their feelings and attitudes. Reliance on the Palestinian population whose labour once supported the country has been replaced with mistrust and even hatred *(see also Lines In The Sand, page 6).*

● ***Weds until 20th 0130 rep 0930, 1715***

A Sight Worth Seeing

(6 x 30 min)

Mike Bullen continues his journey from landmark to landmark on the tourist route around Britain. The sights he has chosen provide a lively introduction to various historical periods.

Edinburgh Castle is a focal point in the Scottish capital, while the ancient and enigmatic Stonehenge draws the mystically minded (and police to discourage them) every midsummer.

London's St Paul's Cathedral, designed by Sir Christopher Wren in the 17th century, is guaranteed to draw the crowds. Mike finishes his tour in the university city of Cambridge, at King's College.

● ***Suns until 24th 0230 rep 1615, Mons 0730***

A Small Matter Of Taste

(8 x 10 min)

The mouth-watering series continues with four visits to places made famous mainly by their association with a particular local delicacy. **Shirley Mann** visits Melton Mowbray in the English Midlands to discover the secret of the "perfect" pork pie ***4th***. Her other destinations are the town in Yorkshire where they make the liquorice sweets known as Pontefract cakes ***11th***, another, near Oxford, where Banbury cakes have been baked since the 17th century ***18th***; and the famous sauce factory in Worcester ***25th***.

● ***Mons 1635 rep Tues 0750, Weds 1235***

Where In The World?

(8 x 30 min)

Where in the world can you hear a gorilla chuckling, a kookaburra calling and a Galapagos tortoise moving very slowly?

Where in the world can you hear a xylophone made of banana wood, music played purely on water and the BBC's oldest sound recording?

And where in the world could you hope to hear a finer collection of travellers' tales than those provided by explorer **Christina Dodwell**, broadcaster **Adrian Love** and a guest list that includes actors **Burt Kwouk** and **Norman Beaton**, **Heather Couper** of *Seeing Stars*, broad-caster **Margaret Howard** and *Network Africa*'s **Hilton Fyle**? Where else but on World Service's own international panel show!

● ***Mons 1715 rep Tues 0030, Weds 0830***

Behind The Stage Door

(7 x 15 min)

Christopher Cook is back with another in the occasional series in which he talks to people who work "behind the scenes". This time it is those who play vital roles in a theatrical production but are unseen by the audience.

This month we meet *The Organiser*, who takes the risk and puts on the show ***15th***; *The Casting Director* who helps the director to select the actors ***22nd***; and *The Designer*, responsible for the overall look of the production ***29th***.

● ***Fris from 15th 1445 rep Suns 0445, Mons 0915***

MUSIC NOVEMBER

Cole Porter Among Friends

(8 x 15 min)

Steve Race continues his affectionate profile in words and music of that master songwriter Cole Porter, who was born a hundred years ago this year.

Porter, the writer of such standards as *I Get A Kick Out Of You* and *Begin The Beguine*, began writing merely to entertain his society friends. It was when Broadway decided that the songs deserved wider exposure that his career went into orbit.

● ***Sats until 30th 0745 rep Mons 0145, Tues 1445***

Concert Hall

(45 min)

Next comes the seldom-heard early *Piano Quintet* by Bartok ***17th***, and finally more familiar fare, the great *D Minor String Quartet* by Schubert (*Death And The Maiden*) ***24th***.

● ***Suns 1515 rep Tues 0815, 2315***

Images Of Britain

(6 x 15 min)

Larry Harris talks to more foreign correspondents based in Britain to find out what they are telling their readers about the British.

What do they think of British politics, for example? How do they rate the nation's economic performance and do they enjoy life in the United Kingdom? Previous series have revealed some unexpected views; this one will undoubtedly do the same!

● ***Mons from 4th 1445 rep 1930, Tues 0915, 2205***

In Praise Of God

(30 min)

The Lutheran tradition has taken to heart Martin Luther's conviction that "next to the word of God, music deserves the highest praise". This is reflected in the worship of the Lutheran Church of St Anne and St Agnes, in the City of London.

Pastor Ronald Englund, and **Cantor Peter Lea-Cox** draw on the rich music tradition of the largest denomination to emerge from the 16th century Reformation for *In Praise of God* ***17th***.

The **Rev David Hughes** introduces a service from Hope Baptist Church in Bridgend, South Wales ***3rd***. Haydn's *Little Organ Mass* is featured in a service of Holy Communion from St Mary's Anglican Church, Nottingham, celebrated by **Canon Eddie Neale** ***10th***. The last service this month comes from Northern Ireland ***24th***.

● ***Suns (ex 10th) 1030, 1715, Mons 0030***

The horn dance performed in Abbots Bromley has a curious echo...

Gods And Demons

(3 x 30 min)

What do the men of Abbots Bromley in the English Midlands have in common with the Mayo Indians of Northern Mexico? The answer is that both communities have a traditional dance featuring deer antlers.

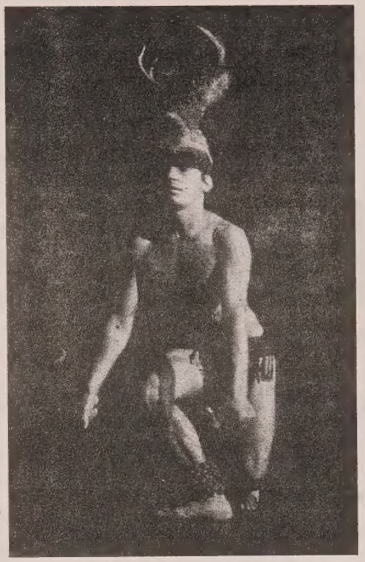
In a series of three programmes **John Thornley** looks at music of belief and ritual from around the world, from Ancient Greece to the present. The wide diversity of sounds is matched by surprising resemblances in the ritual customs of different countries.

Programme One features the story of Ramayana from Bali, voodoo music from Cuba, Armenian plainchant and the voice of Jewish cantor **David Roitman**, recorded in the 1920s ***12th***.

The following week John Thornley looks at sacred dances; hymns to the moon and the sun from Niger, the Soviet Union and Ancient Greece; and Buddhist festival music from Burma ***19th***.

The final programme concentrates on incantations, possession dances and casting out of evil spirits, from places as far apart as Argentina and Japan, Switzerland and Papua New Guinea. There are also songs of the Pearl Fishers of Bahrain and a tune from "the little people" in Ireland ***26th***.

● ***Tues from 12th 1030 rep Fris 0030, 1715***



...in a traditional dance from Northern Mexico.

Composer of the Month

(30 min)

When Jean-Philippe Rameau died in 1764, a couple of weeks short of his 81st birthday, he was widely regarded as the most important French composer of his generation.

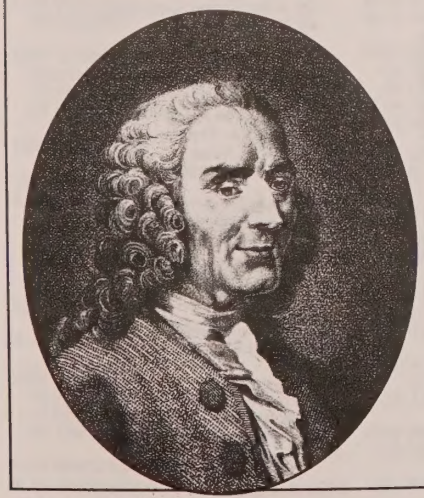
Respected for his work as a musical theorist as much as for his compositions, he devoted the earlier part of his career primarily to composing music for the harpsichord. At 50 he wrote his first opera, *Hippolyte Et Aricie*, and from then on his output was almost entirely for the stage.

More than 20 theatrical works followed, many containing quantities of dance music and allowing Rameau to exploit a gift for colourful orchestration.

Though his music is some of the most attractive of the Baroque era, his personality was rather less genial, and he seems to have had several arguments with prominent people, including the philosopher and composer Jean-Jacques Rousseau.

What matters to us, however, is the music and there is ample chance to explore Rameau's special composing genius this month.

● ***Mons 0230 rep 1130, Tues 1715***



(Royal College of Music)

That's The Way It Was

(6 x 15 min)

In the fickle world of pop, a performer's career can come to a shuddering halt as record buyers turn their collective attention to the latest fashionable music sensation. So what became of "what's his name"?

In the last series, we heard how Procul Harum's lead singer Gary Brooker recently composed a symphony and how Amen Corner's front man Andy Fairweather Low went on to solo success and later became a much-in-demand session musician.

In a new series of *That's The Way It Was* **John Sugar** finds out what happens to singers and performers who no longer enjoy media attention and success. How do they decide what to do next? Join him for music, chat and memories as another collection of six artists recall the giddy heights of fame.

● ***Weds from 27th 0130 rep 0930, 1715***

The Best Of British ***(10 x 15 min)***

Best Of British: Gordon Sumner, aka Sting, and Squeeze.

Through the past three decades of popular music, Britain has produced some memorable performers (and, it must be admitted, some pretty awful ones too!)

So what sets the best apart from the rest? It is not always the obvious criteria of chart success, several million-selling albums or thousands of screaming fans, although often these things do apply. More than these, it is the quality of the songs, the musical integrity of the performers, and great stories about why they wrote what they wrote, and did what they did.

It is all there, in the best of *The Best of British* – another chance to hear the likes of 10cc, Sting, Ian Dury and Squeeze reliving some great times and some even better music!

● ***Fris from 1st 2205 rep Suns 0430, 0930***

EARLY WARNING Poems By Post *A new series of* ***Michael Rosen****'s popular request programme begins in February. If you have a favourite piece of poetry you wish to hear, or a poet from your own country whose work you would like more widely known, write – the sooner the better – to Poems By Post, BBC, Bush House, Strand, London WC2.B 4PH.*

DAY TO DAY

Special programmes for ■ AFRICA ▲ ASIA ★ EUROPE ● THE CARIBBEAN ◆ THE FALKLANDS

SATURDAY
November 2 9 16 23 30

0000 Newsdesk
30 From The Weeklies
45 Recording Of The Week

0100 World News
05 Outlook
30 Short Story (*ex **2nd, 30th*** Seeing Stars)
45 Jazz Now And Then
▲ 45 South Asia Survey

0200 Newsdesk
30 People And Politics

0300 World News
09 News About Britain
15 Sports Roundup
30 The Vintage Chart Show
■ 30 African News
■ 35 Saturdays Only

0400 Newsdesk
30 Jazz Now And Then
■ 30 Spice Taxi (*ex **23rd, 30th***)
45 Worldbrief

0500 World News
09 Twenty-Four Hours
30 World Business Report
★ 30 Europe Today
■ 30 African News
■ 35 Saturdays Only
40 Words Of Faith
45 The World Today

0600 Newsdesk
30 Meridian
■ 30 African News
■ 35 Saturdays Only

0700 World News
09 Twenty-Four Hours
30 From The Weeklies
■ 30 African News
■ 35 Saturdays Only
45 Cole Porter Among Friends

0800 World News
09 Words Of Faith
15 A Jolly Good Show

0900 World News
05 Waveguide
15 Worldbrief
30 Personal View
45 Sports Roundup

1000 News Summary *followed by*
Jazz Now And Then
15 Letter From America
30 People And Politics

1100 Newsdesk
30 Meridian

1200 World News
09 News About Britain
15 Multitrack 3
45 Sports Roundup

1300 Newshour

1400 News Summary *followed by*
John Peel
30 Sportsworld

1500 World News
■ 00 Spice Taxi (*ex **23rd, 30th***)
15 Sportsworld

1600 World News
09 News About Britain
15 Sportsworld *contd*

1700 News Summary *followed by*
Sportsworld *contd*
■ 00 World News
■ 09 African News
■ 15 Spice Taxi (*ex **23rd, 30th***)
30 Personal View
45 Sports Roundup

1800 Newsdesk
30 From Our Own Correspondent
■ 30 Spice Taxi (*ex **23rd , 30th*** African Theatre)
50 Write On...

1900 News Summary *followed by **2nd, 9th*** Updating The UN Charter; ***16th*** Lines In The Sand; *from **23rd*** Conflicting Opinions
45 From The Weeklies

2000 World News
09 Personal View
25 Words Of Faith
30 Meridian
★ 30 Europe This Weekend

2100 Newshour

2200 World News
05 Short Story (*ex **2nd, 30th*** Seeing Stars)
20 Jazz For The Asking
50 Sports Roundup

2300 World News
05 Words Of Faith
10 Book Choice
15 A Jolly Good Show

SUNDAY
November 3 10 17 24

0000 Newsdesk
30 The Ken Bruce Show (*ex **3rd*** Play Of The Week: The Secret Rapture)

0100 News Summary (*ex **3rd**) followed by* Play Of The Week: ***3rd*** The Secret Rapture *contd;* ***10th*** Dark Star;***17th, 24th*** Peer Gynt

0200 Newsdesk
30 A Sight Worth Seeing

0300 World News
09 News About Britain
15 Sports Roundup
30 From Our Own Correspondent
■ 30 African News
■ 35 Postmark Africa
50 Write On...

0400 Newsdesk
30 The Best Of British
■ 30 African Perspective (*ex **24th*** African Theatre)
45 ***3rd, 10th*** Mastering Photography, *from **17th*** Behind The Stage Door

0500 World News
09 Twenty-Four Hours
30 World Business Review
★ 30 Europe This Weekend
■ 30 African News
■ 35 Postmark Africa
40 Words Of Faith
45 Letter From America

0600 Newsdesk
30 Jazz For The Asking
■ 30 African News
■ 35 Postmark Africa

0700 World News
09 Twenty-Four Hours
30 From Our Own Correspondent
■ 30 African Perspective (*ex **24th*** African Theatre)
50 Write On...

0800 World News
09 Words Of Faith
15 Music With Matthew

0900 World News
05 World Business Review
15 Short Story (*ex **3rd*** Seeing Stars)
30 The Best Of British
45 Sports Roundup

1000 News Summary *followed by*
Science In Action
30 In Praise Of God (*ex **10th*** Cenotaph Service)

1100 Newsdesk (*ex **10th*** Cenotaph Service contd)
20 (***10th** only*) **World News**
30 The Ken Bruce Show (*ex **3rd*** Play Of The Week: The Secret Rapture)

1200 News Summary (*ex **3rd**) followed by* Play Of The Week: ***3rd*** The Secret Rapture *contd;* ***10th*** Dark Star;***17th, 24th*** Peer Gynt

1300 Newshour

1400 News Summary *followed by*
Colours (*ex **3rd*** Eastern Approaches)
30 Anything Goes

1500 World News
■ 30 African Perspective (*ex **24th*** African Theatre)
15 Concert Hall

1600 World News
09 News About Britain
15 A Sight Worth Seeing
45 Letter From America

1700 World News
■ 00 World News
05 World Business Review
■ 09 African News
15 In Praise Of God
■ 15 African Perspective (*ex **24th*** African Theatre)
45 Sports Roundup

1800 Newsdesk
30 The Ken Bruce Show (*ex **3rd*** Play Of The Week: The Secret Rapture)
■ 30 Postmark Africa

1900 News Summary (*ex **3rd**) followed by* Play Of The Week: ***3rd*** The Secret Rapture *contd;* ***10th*** Dark Star;***17th, 24th*** Peer Gynt

2000 World News
09 Folk In Britain
25 Words Of Faith
30 My Word
★ 30 Europe Tonight

2100 Newshour

2200 World News
05 Music With Matthew
50 Sports Roundup

2300 World News
05 World Business Review
15 Letter From America
30 Colours (*ex **3rd*** Eastern Approaches)

MONDAY
November 4 11 18 25

0000 Newsdesk
30 In Praise Of God

0100 News Summary *followed by **4th, 11th*** Updating The UN Charter; ***18th*** Lines In The Sand; *from **25th*** Conflicting Opinions
45 Cole Porter Among Friends

0200 Newsdesk
30 Composer Of The Month

0300 World News
09 News About Britain
15 Sports Roundup
30 Anything Goes
■ 30 African News
■ 35 Network Africa

0400 Newsdesk
30 Off The Shelf
■ 30 African News
■ 35 Network Africa
45 Andy Kershaw's World Of Music

0500 World News
09 Twenty-Four Hours
30 Financial News *followed by* Waveguide
★ 30 Europe Today
■ 30 African News
■ 35 Network Africa
40 Words Of Faith
45 Recording Of The Week

0600 Newsdesk
30 Colours (*ex **4th*** Eastern Approaches)
■ 30 African News
■ 35 Network Africa

0700 World News
09 Twenty-Four Hours
30 A Sight Worth Seeing
■ 30 African News
■ 35 Network Africa

0800 World News
09 Words Of Faith
15 Health Matters
30 Anything Goes

0900 World News
05 World Business Report
15 ***4th, 11th*** Mastering Photography, *from **18th*** Behind The Stage Door
30 Andy Kershaw's World Of Music
45 Sports Roundup

1000 News Summary *followed by*
Colours (*ex **4th*** Eastern Approaches)
30 The Vintage Chart Show

1100 Newsdesk
30 Composer Of The Month

1200 World News
09 News About Britain
15 My Word
45 Sports Roundup

1300 Newshour

1400 World News
▲ 00 Special Programmes For Asia *inc* Dateline East Asia
05 Outlook
30 Off The Shelf
45 Images Of Britain

1500 World News
15 ***4th, 11th*** Updating The UN Charter; ***18th*** Lines In The Sand; *from **25th*** Conflicting Opinions
■ 15 Focus On Africa

1600 World News
09 News About Britain
15 New Ideas
35 A Small Matter Of Taste
45 The World Today

1700 World News
▲ 00 South Asia Survey
05 World Business Report
■ 05 Focus On Africa
15 Where In The World?
■ 40 African News
45 Sports Roundup

1800 Newsdesk
30 Multitrack 1: Top 20
■ 30 Focus On Africa
■ 55 African News

1900 World News
05 Outlook
30 Images Of Britain
45 Health Matters

2000 World News
09 The World Today
25 Words Of Faith
30 The Vintage Chart Show
★ 30 Europe Tonight

2100 Newshour
● 15 Caribbean Report

BBC WORLD SERVICE

DAY TO DAY

ALL TIMES GMT

2200 World News
05 The Learning World
20 Rock Salad
50 Sports Roundup

2300 World News
05 World Business Report
15 Mediawatch
30 Multitrack 1: Top 20

TUESDAY
November 5 12 19 26

0000 Newsdesk
30 Where In The World?

0100 World News
05 Outlook
30 Folk In Britain
45 Health Matters
▲ 45 South Asia Survey

0200 Newsdesk
30 My Word

0300 World News
09 News About Britain
15 Sports Roundup
30 John Peel
■ 30 African News
■ 35 Network Africa

0400 Newsdesk
30 Off The Shelf
■ 30 African News
■ 35 Network Africa
45 The Learning World

0500 World News
09 Twenty-Four Hours
30 World Business Report
★ 30 Europe Today
■ 30 African News
■ 35 Network Africa
40 Words Of Faith
45 The World Today

0600 Newsdesk
30 Rock Salad
■ 30 African News
■ 35 Network Africa

0700 World News
09 Twenty-Four Hours
30 New Ideas
■ 30 African News
■ 35 Network Africa
50 A Small Matter Of Taste

0800 World News
09 Words Of Faith
15 Concert Hall

0900 World News
05 World Business Report
15 Images Of Britain
30 The Learning World
45 Sports Roundup

1000 News Summary *followed by*
Discovery
30 Gods And Demons (*ex* ***5th*** Conductors At Work)

1100 Newsdesk
30 Megamix

1200 World News
09 News About Britain
15 Multitrack 1: Top 20
45 Sports Roundup

1300 Newshour

1400 World News
▲ 00 Special Programmes For Asia *inc* Dateline East Asia
05 Outlook
30 Off The Shelf
45 Cole Porter Among Friends

1500 World News
15 A Jolly Good Show
■ 15 Focus On Africa

1600 World News
09 News About Britain
15 Megamix
45 The World Today

1700 World News
▲ 00 South Asia Survey
05 World Business Report
■ 05 Focus On Africa
15 Composer Of The Month
■ 40 African News
45 Sports Roundup

1800 Newsdesk
30 Discovery
■ 30 Focus On Africa
■ 55 African News

1900 World News
05 Outlook
30 Development '91

2000 World News
09 The World Today
25 Words Of Faith
30 Meridian
★ 30 Europe Tonight

2100 Newshour
● 15 Caribbean Report
◆ 30 Calling The Falklands

2200 World News
05 Images Of Britain
20 Megamix
50 Sports Roundup

2300 World News
05 World Business Report
15 Concert Hall

WEDNESDAY
November 6 13 20 27

0000 Newsdesk
30 Omnibus

0100 World News
05 Outlook
30 After The War Was Over (*ex* ***27th*** That's The Way It Was)
45 Country Style
▲ 45 South Asia Survey

0200 Newsdesk
30 Development '91

0300 World News
09 News About Britain
15 Sports Roundup
30 Discovery
■ 30 African News
■ 35 Network Africa

0400 Newsdesk
30 Off The Shelf
■ 30 African News
■ 35 Network Africa
45 Country Style

0500 World News
09 Twenty-Four Hours
30 World Business Report
★ 30 Europe Today
■ 30 African News
■ 35 Network Africa
40 Words Of Faith
45 The World Today

0600 Newsdesk
30 Meridian
■ 30 African News
■ 35 Network Africa

0700 World News
09 Twenty-Four Hours
30 Development '91
■ 30 African News
■ 35 Network Africa

0800 World News
09 Words Of Faith
15 Mediawatch
30 Where In The World?

0900 World News
05 World Business Report
15 Country Style
30 After The War Was Over (*ex* ***27th*** That's The Way It Was)
45 Sports Roundup

1000 News Summary *followed by*
Omnibus
30 Jazz For The Asking

1100 Newsdesk
30 Meridian

1200 World News
09 News About Britain
15 New Ideas
35 A Small Matter Of Taste
45 Sports Roundup

1300 Newshour

1400 World News
▲ 00 Special Programmes For Asia *inc* Dateline East Asia
05 Outlook
30 Off The Shelf
45 Good Books

1500 World News
15 Mediawatch
■ 15 Focus On Africa
30 It's A Funny Old World

1600 World News
09 News About Britain
15 Rock Salad
45 The World Today

1700 World News
▲ 00 South Asia Survey
05 World Business Report
■ 05 Focus On Africa
15 After The War Was Over (*ex* ***27th*** That's The Way It Was)
30 Andy Kershaw's World Of Music
■ 40 African News
45 Sports Roundup

1800 Newsdesk
30 Multitrack 2
■ 30 Focus On Africa
■ 55 African News

1900 World News
05 Outlook
30 Omnibus

2000 World News
09 The World Today
25 Words Of Faith
30 Assignment
★ 30 Europe Tonight

2100 Newshour
● 15 Caribbean Report

2200 World News
05 From Our Own Correspondent
20 Sports International
50 Sports Roundup

2300 World News
05 World Business Report
15 Good Books
30 Multitrack 2

THURSDAY
November 7 14 21 28

0000 Newsdesk
30 It's A Funny Old World

0100 World News
05 Outlook
30 Waveguide
40 Book Choice
45 The Farming World
▲ 45 South Asia Survey

0200 Newsdesk
30 Sports International

0300 World News
09 News About Britain
15 Sports Roundup
30 Assignment
■ 30 African News
■ 35 Network Africa

0400 Newsdesk
30 Off The Shelf
■ 30 African News
■ 35 Network Africa
45 From Our Own Correspondent

0500 World News
09 Twenty-Four Hours
30 World Business Report
★ 30 Europe Today
■ 30 African News
■ 35 Network Africa
40 Words Of Faith
45 The World Today

0600 Newsdesk
30 Sports International
■ 30 African News
■ 35 Network Africa

0700 World News
09 Twenty-Four Hours
30 Network UK
■ 30 African News
■ 35 Network Africa

0800 World News
09 Words Of Faith
15 Good Books
30 John Peel

0900 World News
05 World Business Report
15 From Our Own Correspondent
30 The Farming World
45 Sports Roundup

1000 News Summary *followed by*
Assignment
30 It's A Funny Old World

1100 Newsdesk
30 Murder Most Foul (*ex* ***7th*** Scenes From A Marriage)

1200 World News
09 News About Britain
15 Multitrack 2
45 Sports Roundup

1300 Newshour

1400 World News
▲ 00 Special Programmes For Asia *inc* Dateline East Asia
05 Outlook
30 Off The Shelf
45 Recording Of The Week

1500 World News
15 Music With Matthew
■ 15 Focus On Africa

1600 World News
09 News About Britain
15 Network UK
45 The World Today

1700 World News
▲ 00 South Asia Survey
05 World Business Report
■ 05 Focus On Africa
15 Murder Most Foul (*ex* ***7th*** Scenes From A Marriage)
■ 40 African News
45 Sports Roundup

1800 Newsdesk
30 Focus On Faith
■ 30 Focus On Africa
■ 55 African News

1900 World News
05 Outlook
30 Seven Seas
45 The Farming World

2000 World News
09 The World Today
25 Words Of Faith
30 Meridian
★ 30 Europe Tonight

2100 Newshour
● 15 Caribbean Report

2200 World News
05 Global Concerns
20 Network UK
50 Sports Roundup

2300 World News
05 World Business Report
15 Music Review

FRIDAY
November 1 8 15 23 30

0000 Newsdesk
30 ***1st, 8th*** Conductors At Work; *from* ***15th*** Gods And Demons

0100 World News
05 Outlook
30 Seven Seas
45 Global Concerns
▲ 45 South Asia Survey

0200 Newsdesk

DAY TO DAY

30 ***1st, 8th*** Scenes From A Marriage; *from* ***15th*** Murder Most Foul

0300 World News
09 News About Britain
15 Sports Roundup
30 Focus On Faith
■ 30 African News
■ 35 Network Africa

0400 Newsdesk
30 Off The Shelf
■ 30 African News
■ 35 Network Africa
45 Folk In Britain

0500 World News
09 Twenty-Four Hours
30 World Business Report
★ 30 Europe Today
■ 30 African News
■ 35 Network Africa
40 Words Of Faith
45 The World Today

0600 Newsdesk
30 Meridian
■ 30 African News
■ 35 Network Africa

0700 World News
09 Twenty-Four Hours
30 ***1st, 8th*** The Modern Sherlock Holmes; *from* ***15th*** The Amazon Watershed
■ 30 African News
■ 35 Network Africa

0800 World News
09 Words Of Faith
15 Music Review

0900 World News
05 World Business Report
15 Global Concerns
30 Seven Seas
45 Sports Roundup

1000 News Summary *followed by*
Focus On Faith
30 Rock Salad

1100 Newsdesk
30 Meridian

1200 World News
09 News About Britain
15 ***1st, 8th*** The Modern Sherlock Holmes; *from* ***15th*** The Amazon Watershed
45 Sports Roundup

1300 Newshour

1400 World News
▲ 00 Special Programmes For Asia *inc* Dateline East Asia
05 Outlook
30 Off The Shelf
45 Behind The Stage Door (*ex* ***1st, 8th*** Mastering Photography)

1500 World News
15 Music Review
■ 15 Focus On Africa

1600 World News
09 News About Britain
15 Science In Action
45 The World Today

1700 World News
▲ 00 South Asia Survey
05 World Business Report
■ 05 Focus On Africa
15 ***1st, 8th*** Conductors At Work; *from* ***15th*** Gods And Demons
■ 40 African News
45 Sports Roundup

1800 Newsdesk
30 Multitrack 3
■ 30 Focus On Africa
■ 55 African News

1900 World News
05 Outlook
15 ***1st, 8th*** The Modern Sherlock Holmes; *from* ***15th*** The Amazon Watershed

2000 World News
09 The World Today
25 Words Of Faith
30 Science In Action
★ 30 Europe Tonight

2100 Newshour
● 15 Caribbean Report
◆ 30 Calling The Falklands

2200 World News
05 The Best Of British
20 People And Politics
50 Sports Roundup

2300 World News
05 World Business Report
15 Worldbrief

ALTERNATIVES

■ AFRICAN NEWS
Mons-Fris: 0330, 0430, 0530, 0630, 0730, 1740, 1855; Sats: 0330, 0530, 0630, 0730 1709; Suns: 0330, 0530, 0630, 1709,

■ AFRICAN PERSPECTIVE
Feature or discussion analysing a major issue.
● ***Suns until 17th 0430 rep 0730, 1500, 1715***

■ AFRICAN THEATRE
A season of plays by African writers, .see page 13
● ***Sats from 23rd 1830 rep Suns 0430, 0730, 1500, 1715***

■ FOCUS ON AFRICA
Up-to-the-minute reports on the day's events from all over the continent.
● ***Mons-Fris 1515, 1705, 1830***

■ NETWORK AFRICA
The breakfast show, with **Hilton Fyle** and the *Network* team, packed with news, sports, personalities, music and listeners' comments.
● ***Mons-Fris 0335, 0435, 0535, 0635, 0735***

■ POSTMARK AFRICA
Expert answers to any question under the sun – write to *Postmark Africa*, BBC African Service, London WC2B 4PH.
● ***Suns 0335 rep 0535, 0635, 1830***

■ SATURDAYS ONLY
Weekends with the *Focus* team – interviews with leading politicians, discussion of recent events and, once a month, an entertaining quiz.
● ***Sats 0335 rep 0535, 0635, 0735***

■ SPICE TAXI
A sideways look at African culture, covering everything from presidential style to cult films.
● ***Sats to 16th 0430 rep 1500, 1715, 1830***

▲ DATELINE EAST ASIA
Magazine programme dealing with the political and economic affairs of South-east and North-east Asia.
● ***Mons-Fris 1400***

▲ SPECIAL PROGRAMMES FOR ASIA
After *Dateline East Asia*, two 15-minute teaching English programmes and a 15-minute "slow speed" bulletin of world news.
● ***Mons-Fris 1400***

▲ SOUTH ASIA SURVEY
In-depth analysis of political and other developments in the region
● ***Mons-Fris 1700 rep Tues-Sats 0145***

★ EUROPE TODAY
A new alternative for the new Europe: all the latest news, analysis and comment, six days a week...
● ***Mons-Sats 0530***

★ EUROPE TONIGHT
...six nights a week...
● ***Suns-Fris 2030***

★ EUROPE THIS WEEKEND
...and a magazine programme to end – and start – the week, including news and features, profiles and trends.
● ***Sats 2030, Suns 0530***

● CARIBBEAN REPORT
Weekday coverage of Caribbean affairs in Britain, the EC and the Caribbean region, with emphasis on political and economic analysis.
● ***Mons-Fris 2115***

◆ CALLING THE FALKLANDS
News, current affairs and features of particular concern to the Islanders.
● ***Tues, Fris 2130***

■ **Alternatives for Africa**

AFRICAN THEATRE

(6 x 30 min)

A new season of plays by African authors starts with *Ndaninso*, a powerful depiction of the road to tyranny.

A young man dreams of reaching the rainbow. "I have heard cries and screams from that direction", he is warned by **Rudolf Walker** *(above)* who plays the old man, but the young man defies his advice.

Author Garton Sandifolo Kamdchedzera lives in Malawi and this is his first play for the BBC ***23rd***.

The Storey of Pride is set in a small town where all the houses are bungalows – all except one. Its owner revel in his superior status, failing to notice that his prized possession is turning into a liability. The author, Onukaba Adinoyi Ojo comes from Nigeria and currently lives and works in New York ***30th***

● ***Sats from 23rd 1830 rep Suns 0430, 0730, 1500, 1715***

Short Story

(15 min)

A young black boy discovers the power of apartheid when he works for a white woman. He is happy looking after her baby but her husband's prejudices interfere. *Chocolates For A Grass Cutter* is by Sathia J Krys in South Africa ***16th***.

Joshua has been robbed twice in a week and decides that honesty does not pay. But his attempts to become a con-man do not go smoothly. *Easy Pickings* is by Barbara Kimenye in Kenya ***23rd***.

● ***Sats (ex 2nd, 30th) 0130 rep 2205, Suns (ex 3rd, Dec 1st) 0915***

OFF THE SHELF

The Sign Of Four

A young lady visits Sherlock Holmes with an odd tale of a missing father, anonymous gifts and a secret assignation. Mary Morstan is alone in the world, and the great detective finds it hard to refuse help.

He believes he can solve the puzzle quickly – until Miss Morstan produces an intriguing document found among her father's papers. It appears to be the plan of a building, but in the left-hand corner is a curious hieroglyphic like four crosses in a line, with their arms touching. Beside it is written in rough characters "Mahomet Singh, Abdullah Khan, Dost Akbar, Jonathan Small – the Sign of Four."

The story by Sir Arthur Conan Doyle, first published in 1890, is abridged by Michael Hardwick and read for World Service by **Nigel Stock**, known for his television portrayal of Holmes' companion Dr Watson. Producer: Maurice Leitch. ***11th-22nd***

Lord Jim

As an apprentice seaman, Jim dreamed of a life of adventure on the high seas. Reality proves very different. A job as first mate aboard the *Patna*, taking 800 pilgrims to the Red Sea, ends in disaster. Believing the ship to be sinking, Jim panics and, along with three others, abandons it, leaving the pilgrims to the mercy of the Indian Ocean. Disgrace and dismissal are inevitable.

But a chance encounter at the *Patna* enquiry takes Jim to a different life, on the Malaysian island of Patusan. Here he lives with the local people and becomes Tuan Jim – Lord Jim.

Joseph Conrad's novel, published in 1900, not only tells a good story but also considers the deep moral questions of betrayal, honour and justice in two very different cultures. It is abridged for radio in 15 parts by Keith Darvill and the reader is **Joss Ackland** ***25th-December 13th***

● ***Mons-Fris 0430 rep 1430***

Mozart: Prodigy Of Nature

(9 x 30 min)

"It depends on the grace of God whether he wishes to keep this prodigy of nature in the world in which he has placed it, or to take it himself." (Leopold Mozart, in a letter of February 1764).

Mozart's life, as told through his own letters and the letters, diaries and memoirs of his family and friends. Presenter **Stanley Sadie** takes us from Mozart's early years as an internationally renowned prodigy, through his unsettled time in Salzburg and Munich to his final period in Vienna and his greatest creations. Dr Sadie aims to separate myth from truth, to show how a better understanding of the real Mozart can bring us to a deeper understanding of his music.

● ***Tues from 3rd 1030 rep Fris 0030, 1715***

The Mozart Phenomenon

(9 x 15 min)

Who, or what, killed Mozart? Did his father's insistence on high-pressure concert tours do serious damage to the young boy's personality? How did Mozart go about composing his music? How should it be performed, on period or modern instruments – does it make any difference? And what is it about the music that gives it such universal appeal?

Nicholas Kenyon discusses such questions with leading scholars and performers from around the world and explores the problems facing them.

Mozart's Music: the ingredients of his style, with **Professor Neal Zaslaw** of Cornell University in the USA ***7th***.

Mozart's Personality: an eternal child? **Andrew Steptoe**, Professor of Psychology at the University of London ***14th***.

Mozart the Pianist: his playing and composing style for the piano, with fortepiano specialist **Malcolm Bilson** ***21st***.

Mozart the Composer : **Professor Clifford Eisen** of New York University examines Mozart's working methods ***28th***.

● ***Sats from 7th 0745 rep Mons 0145, Tues 1445***

The Mozart Years

(5 x 45 min)

We now think of Mozart as the greatest composer of his time but 200 years ago people were not so sure: Antonio Salieri was first choice as Court Composer, and an opera by Spanish composer Martin y Soler was preferred to *The Marriage Of Figaro*.

Europe was full of composers fighting to be The Best. Here is a chance to hear some of their compositions, music which some scholars feel is unfairly overshadowed by Mozart's achievement.

Besides Salieri, the composers include the two most gifted sons of Bach, Carl Philipp Emanuel and Johann Christian; the Italians Domenico Cimarosa and Giovanni Paisiello; Mozart's father Leopold; and the great figure of Joseph Haydn.

● ***Suns from 1st 1515 rep Tues 0815, 2315 (ex 31st)***

Music Review: Mozart In Vienna

(1 x 45 min)

On the anniversary day itself, **Nicholas Kenyon** joins in with the celebrations in Vienna. There are also special reports on how the anniversary year has been celebrated around the world.

● ***Thurs 5th 2315 rep Fri 0815, 1515***

What Makes A Poem?

(6 x 10 min)

"Poetry is like the bird's song, but since it is sung by a human being it has more meaning."

"Poetry is not made by taking thought about a subject, rather it forms in the mind like a crystal."

"The perfect poems in any language are so few that they could all be included in a book much smaller than the Bible."

What is the nature of poetic creativity? How is poetry to be distinguished from prose? How does it cast its spell? **John Pickford** consults distinguished poets and critics from a range of cultures.

● ***Mons from 9th 1635 rep Tues 0750, Weds 1235***

■ **Alternatives for Africa**

AFRICAN THEATRE

(6 x 30 min)

Contemporary themes dominate this year's *African Theatre* season in works by writers from all over the continent.

Don't Throw Dentures In The River: A young man stands in the dock accused of a violent assault. As the evidence is examined, he recalls his schooldays in the strict care of missionaries. Gradually a poignant portrait of the man emerges, at odds with the facts of the case.

Rade Apani's play explores the relationship between white and black Zimbabweans and vividly conveys the loneliness felt by a rural outsider in the city ***7th***.

The Taxi-Driver: Jimmy the driver takes us on a ride through the corrupt society in which he lives. Policemen, telephonists, even waitresses each take their cut. There is no justice – at least, that is how it seems to Jimmy. An hilarious comedy by Ghanaian author Victor Lindsay ***14th***.

Forbidden Fruit: Alura falls in love and scandalises her parents in the process. She is kept under lock and key while her brother, who believes his sister's passion could jeopardise his career, runs for political office. But Alura refuses to please convention by forsaking the love she has for another woman.

The author, 24-year-old Nigerian Biyi Bandele Thomas, won the World Student Drama Trust Award in 1989 ***21st***.

Russian Winter: It is hard to imagine, in the current climate of political and economic collapse in the Soviet Union, just what an intellectual and moral inspiration the USSR was to thousands of Africans in the 40 years following World War Two.

Ugandan Vincent Magombe spent nine years studying in the Soviet Union and is now married to a Russian. In his play he draws a series of portraits of life in Russia, revealing the hardship and hypocrisy behind the ideology, but also exploring the friendships and love which made it all bearable ***28th***

● ***Sats until 28th 1830 rep Suns 0430, 0730, 1500, 1715***

Words Of Faith

Each Sunday in December, harpist **Mary O'Hara** reflects the colours of Advent, their meaning and significance, in a special series drawing on some of her best-known music.

● ***Daily 0540 rep 0809, 2025, 2305 (Sats only). Special programmes all Suns in December***

Men By Women, Women By Men

(2 x 30 min)

To the artist **John Wonnacott**, the painting of nudes has been a major preoccupation throughout his career. He paints naked women not as pin-ups but to express what he calls "the mortality of a fully lived-in body". He also paints them because he loves them.

To the sculptor **Elisabeth Frink**, the making of men has been a major preoccupation throughout her career. Her figures are usually nudes – to express the strength and vulnerability she perceives in the male form.

These viewpoints are drawn from two complementary programmes in which the sexes scrutinise each other. Women approaching labour describe their partners' reactions. Men reflect on the way their wives have changed.

Women in self-defence groups express their fears of male violence. Men describe the gulf between their fantasy images of women and the reality they discover.

● ***Suns 1st, 8th 0230 rep 1615, Mons 0730***

ZAP! KERPOW!

Not to mention *Biff! Splat!! Kerrunch!!!* Rosalind Yarde steps into the zany fantasy world of modern comics and finds there is more to them than the "establishment" superheroes like Superman and Batman might lead us to believe.

In *Zap! Kerpow!* she comes face to face with the terrifying Judge Dredd, a violent futuristic supercop. She cowers as Tank Girl, a punk-style, hardnosed female anti-hero, zooms around on her high-powered motorbike.

And she meets Concrete, a huge grey giant who has been turned into a hard man by aliens. Luckily for the world, he is "ecologically sound" and spends his time trying to save it.

In the comic sub-culture there are heroes, anti-heroes and villains. But it is not just a world in which the forces of good battle against the forces of evil.

Comics these days are not just pure fantasy. Some tackle social and political issues, some feature quite ordinary, flawed characters – others are simply violent.

Comics have become an artform firmly entrenched in popular culture in places like Britain, the USA, France and Japan. The thriving competitive industry in these countries has spawned an internal market in which an old copy of a comic can fetch thousands of pounds.

We hear from people involved at every level – artists, writers, editors, collectors and, of course, the characters themselves.

● ***Sun 15th 1401 rep 2330, Mon 0630, 1001***

Heaven Scent

(1 x 45 min)

Ruth Linton investigates the biology and psychology of fragrance. How do our noses detect different perfumes and why do smells have a psychological effect on us? Did you know that the fragrance you choose might say a lot about your personality, or that certain smells can affect your moods?

There is increasing interest in the pharmacological effects of perfume. For example, the use of peppermint and lily of the valley is being tested as a way of reducing errors in the workplace.

Osmotherapy is the name of a new type of treatment based on smell. The world's first "osmone" was launched in Britain earlier this year. It is a fragrance that can best be described as "essence of mother". It might be possible to alleviate depression, combat stress, even suppress appetite through the sense of smell.

● ***Sat 21st 1901 rep Mon 0101, 1515***

The Re-making Of Russia

(6 x 30min)

On August 19th, Communist hardliners in the Soviet leadership tried to overthrow President Mikhail Gorbachev and put an end to the reforms inspired by his policies of perestroika and glasnost.

But within three days the coup had collapsed, showing that the forces unleashed by those policies could not be turned back.

It soon emerged that the coup had succeeded only in hastening the break-up of the Soviet Union. As well as releasing a wave of nationalist fervour in the union republics, the events of August also caused the people of Russia to consider their future.

Rich in natural resources, and with a population of 150 million people, Russia's potential is great. But the legacy of more than 70 years of Communist rule has left the country with a moribund economy and no democratic traditions.

As if the problems presented by these factors were not big enough, the complicated ethnic composition of Russia suggests that it might not survive as a single entity.

In *The Remaking of Russia*, **Stephen Dalziel** examines how the Russians are trying to shape their future. He travels to the capital Moscow to meet many of those who are instrumental in the formation of the new Russia.

He also visits Kazan, capital of Tatarstan, which already claims to be an independent republic despite being located in the heart of Russia.

The series looks at how Russia is developing in six key areas. The first programme analyses the political scene, which was thrown into such turmoil by the attempted coup. Is it possible to introduce genuine democracy into Russia?

And if Tatarstan is to stand alone, what are its chances of creating a truly representative political system? The Tatar leadership was swift to support the coup, yet remained in power after its collapse ***13th***.

Russia's hopes for building a productive economy come under the microscope in the second programme. Western capital is desperately needed but is the West prepared to invest? Can the old problem of an inefficient distribution system, and the new one of the "mafia", be solved? ***20th***.

Russia's future security is the subject of programme three. It could easily form its own army but could Tatarstan? And can Russia really exist without a secret police force to replace the discredited KGB? ***27th***.

Next month: education, religion and the creative worlds of the media and culture.

● ***Fris from 13th 0730 rep 1215, 1930***

Behind The Stage Door

(7 x 15 min)

Christopher Cook goes backstage to meet the theatre people who support the actors; people like the custodian of costumes, *The Wardrobe Mistress* ***6th***; *The Stage Manager*, who organises the stage and everything on it ***13th***; *The Lighting Director*, who makes a vital contribution to the atmosphere and style of a production ***20th***; and *The Publicity Agent*, who liaises with the Press and makes sure all the right people attend ***27th***.

● ***Fris until 27th 1445 rep Suns 0445, Mons 0915***

Meridian

(30 min)

Join *Meridian*, the World Service arts programme, for a special edition of seasonal entertainment, fun and surprises, as celebrities from across the whole spectrum of the arts assemble in the studio for an international "performance" Christmas party ***24th***.

Take a flying leap into 1992 with the *Meridian* Review of the Year, and look back over some of the memorable moments from the arts in 1991, when the team covered stories from around the world that included a banana art exhibition in Frankfurt; a massage chair at the Japan Festival in London and the Avignon International Theatre Festival in France ***31st***.

● ***Tues 24th, 31st 2030 rep Weds 0630, 1130***

Screenplay

(8 x 30 min)

Why was film director Ken Russell intrigued by actress Glenda Jackson's legs when she auditioned for the film *Women In Love*? That is the kind of question the four contestants are expected to be able to answer in the film quiz *Screenplay*.

Kicking off the new series with a special Christmas edition are **Barry Cryer**, **Dick Vosburgh**, **Robin Ray** and **Barbara Windsor**. The programme includes extracts from a long list of films with a Christmas setting. In the chair is **Iain Johnstone**.

● ***Mon 23rd 1715 rep Tues 0030, Wed 0830; Mon 30th 0330 rep 0830, 1715, Tues 0030***

Ships From Seven Seas

(7 x 15 min)

Malcolm Billings explores the development of ships and the history of seafaring by looking at seven different craft from the oceans of the world.

The Pacific: outrigged canoes such as the Fijian proa are examples of distinctive craft built with stone-age technology but capable of voyaging thousands of miles ***16th***.

The Mediterranean: Greek oared ships such as the trireme were sophisticated powerful warships in the ancient world. But what were they like? This programme looks at attempts to solve one of the great puzzles of marine archaeology ***23rd***.

The North Sea: More than a thousand years ago, Viking raiders crossed the North Sea on voyages of exploration and plunder. Aboard a modern replica, **Alan Binns** describes what it is like to sail and row like a Viking warrior ***30th***.

● ***Mons from 16th 1445 rep 1930, Tues 0915, 2205***

The Learning World

(13 x 15 min)

Fame, Maybe Fortune? "Only performing animals need training. Stars need talent and luck!" Is stage school training really necessary, or is a star born, not made?

John Turtle reports on the apparently glamorous but tough and ruthless world of training actors, dancers, and singers.

How far does training "talent" equip the would-be performer for a career which can mean more time waiting and hoping than acting? Plus news and views on the latest ideas in education and training worldwide.

● ***Mons until 23rd 2205 rep Tues 0445, 0930***

Two Cheers For 1991

(1 x 30 min)

The international events of the past year did have a funny side, as the *Two Cheers* team sets out to prove in this special edition. Comedy scriptwriter Michael Dines sets the "tone" on page 21.

● ***Wed Jan 1st 1530 rep Thurs 0030, 1030***

The Queen's Christmas Message

(1 x 5 min)

On Christmas Day Her Majesty Queen Elizabeth speaks to the Commonwealth, continuing a tradition which began nearly 60 years ago with her grandfather, King George V.

The Queen's message is broadcast three times and for the first two transmissions regular frequencies are extended as follows:

0900 for the Middle East: 639 and 720 kHz medium wave

1500 for North America: 15.26 and 9.515 MHz; for the Caribbean: 6.195 MHz

● ***Wed 25th 0900 rep 1500, 2300***

The Royal family goes to church on Christmas Day.

A Host Of Angels

(1 x 30 min)

All the world's main religions embrace the idea of angels as messengers or intermediaries between man and his deity. Art historian **Edwin Mullins** and Anglican priest **Jim Cotter** guide **Zina Rohan** in her attempts to find out what angels mean to people.

Archangels, fallen angels, guardian angels – what do they look like, are they male or female, and what exactly are they supposed to do? To find out join Zina in this special Christmas programme.

● ***Sun 29th 1401 rep 2330, Mon 0630, 1001***

MORE, p. 39

Bob's New Year Revolutions

(1 x 45 min)

In 1990 it seemed a good idea; a request show which enabled people all over the globe to send New Year greetings to far-flung friends and family, *writes* **Bob Holness**.

And so it was – to the extent that the biggest problem for producer Dave Tate and myself was packing as many letters and cards as possible between the records. He it was, by the way, who conceived the inspired title *New Year Revolutions*, as in record revs rather than uprisings!

So we are all set for a repeat performance at the turn of this year – let's hope we can include your request. Write as early as you can to: *Bob's New Year Revolutions*, BBC World Service, Bush House, London WC2B 4PH.

● ***Tues 31st 1515 rep 2315, Wed 0815***

In Touch

(1 x 30 min)

In some societies the birth of a daughter is considered a misfortune. And if the girl is blind it is a disaster, because her marriage prospects are greatly reduced.

Gohar Kordi was born in an Iranian village. She was three years old when she lost her sight, and her family made it clear that they considered her a burden.

Despite these disadvantages, Gohar went to school and university and, in the '60s, became the first blind Iranian woman to gain a degree. She came to Britain and is now happily married, a mother and a psychologist by profession.

She talks to **Peter White** about her life, and we hear extracts from her autobiography *An Iranian Odyssey*.

● ***Fri 6th 0730 rep 1215, 1930***

That's The Way It Was

(6 x 15 min)

They might no longer enjoy the full glare of media attention or number one hit records but many singers and performers have passed through that stage and discovered that there is life beyond the charts. **John Sugar** talks to pop stars of the past and plays their music.

● ***Weds 0130 (ex 25th), 0930 (ex 25th), 1715; Fri 27th only 2315***

Murder Most Foul

(6 x 30 min)

Three more real-life murder stories from the past, re-created by John Scotney from contemporary accounts.

Mancini – The Body In The Trunk: June 1934. The dismembered body of a woman is found in a trunk at Brighton railway station. Tony Mancini (alias Jack Notyre, Hyman Gold, Antonio Pirellie) is charged with murder. He had been living with a prostitute who had disappeared, and it was assumed that the body was hers. But was it? ***5th***.

Sheer Plod – The Luton Sack Murder: "Sheer Plod" is a feature of much detective work – the painstaking house-to-house enquiries and the careful sifting of evidence. This was certainly the case in 1943 when the body of a woman was found in a sack, floating down the River Lea ***12th***.

The New Year Nightmare – Boshears: The setting is a small country town in Essex, on the last day of 1960. Twenty-year-old Jean Constable and her friends are celebrating at The Bell, a hotel popular with American servicemen stationed at a nearby airbase. Three days later Jean's body is found in a ditch and Eugene Boshears is arrested. The subsequent murder trial is one lawyers still argue over today ***19th***. The producers are Tim Suter and Mark Savage.

● ***Thurs until 19th 1130 rep 1715, Fris 0230***

Festival Of Nine Lessons & Carols

(1 x 90 min)

Christmas would not be Christmas without...well, fill in the blank for yourself, but for many people an essential ingredient is the *Festival of Nine Lessons and Carols*, which has been broadcast annually from King's College, Cambridge for more than 60 years.

In this Christmas Eve service nowadays you will hear a mixture of favourite hymns and carols with one or two more recent compositions and the traditional nine lessons from both the Old and New Testaments of the Bible.

The service begins, as always, with the choir processing into the candlelit chapel as a solitary choirboy sings *Once In Royal David's City*. Christmas certainly would not be Christmas without that.

● ***Tues 24th 1502 rep Wed 0030, 0930***

Break A Leg!

(1 x 30 min)

In this new quiz a sparkling panel of celebrity guests answer a fast-moving series of questions on the world of theatre, drama and literature.

You can hear a full series of six shows next year, so there is plenty of time for you to put pen to paper and tell the World Service drama department what you think of this experimental first show!

The chairman is stage, screen and radio star **Martin Jarvis** *(right)* and joining him on the panel are actresses **Anna Massey** and **Madeline Smith**, humourist **Gyles Brandreth** and comedy star **Peter Jones**. The producer is David Hitchinson.

● ***Sun 29th 2030 rep Mon 1215, Tues 0230***

Number Magic

(1 x 30 min)

"Numbers are friends for me, more or less. It doesn't mean the same for you, does it – 3,844? For you it's just a three and an eight and a four and a four. But I say, 'Hi! 62 squared.'"

Perhaps only the mathematically minded feel as passionately about numbers as Wim Klein, but lots of people regard particular numbers as lucky or unlucky. The commonest "unlucky" number is 13; among the ones often said to be "lucky" are 3, 7 and 12.

Why do we have these apparently irrational beliefs? **Christopher Nicholson** explores the magical properties of numbers from the earliest days of mankind to the present day, in search of the number of God.

● ***Sun 22nd 1401 rep 2330, Mon 0630, 1001***

The Birth Of The Big Bands

(4 x 30 min)

American jazz can be traced back to the beginning of this century in New Orleans – and in New York, Kansas City, Chicago, St Louis... By the '20s these separate strands of development were coming together in popular dance music, from which leading composers, arrangers and instrumentalists developed a more sophisticated style.

By the '30s most American homes had a radio set, and broadcasting boosted the popularity of the leading bands in what became known as the Swing Age. **John Fordham** discusses and plays the likes of Jelly Roll Morton, Fletcher Henderson, Paul Whiteman, Duke Ellington, Count Basie, the Dorseys and Benny Goodman.

● ***Suns from 15th 0230 rep 1615, Mon 0730***

Omnibus *(30 min)*

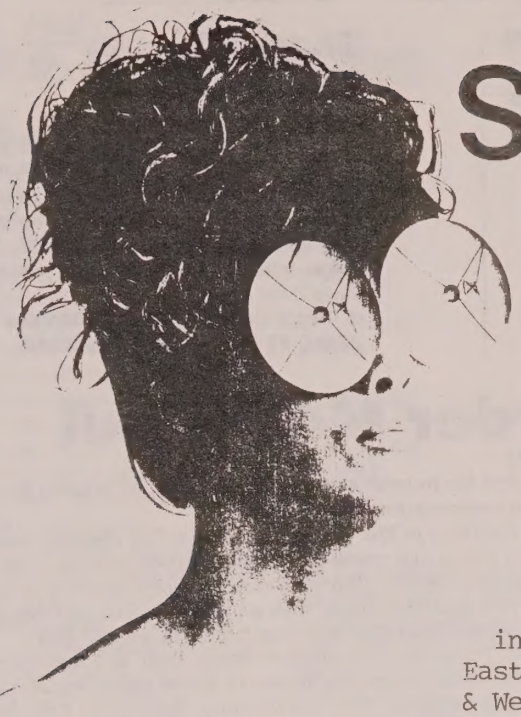
Arriving aboard this month's *Omnibus* are a monk, a doll, a king and a peel of bells, in four features which continue the programme's tradition of delving into all things rich and strange.

Few come stranger than *Rasputin*, the notorious mystic who mesmerised the Russian nobility in the years before the Revolution. His influence over high-born women, including the Empress, contributed to his downfall. **Roger Clark** makes the first broadcast from the cellar where in 1916 Rasputin met his death ***11th***.

The fixed grin and blonde tresses of *Barbie Doll*, her ample bosom and thin legs put her worlds apart from traditional dolls. **Isabel Wolff** looks at the worldwide craze for this triumph of marketing ***4th***.

Also this month, **John Pickford** celebrates the power and beauty of *Bells* ***18th*** and **Judy Kamfner** provides a portrait of *Good King Wenceslas*. In Prague she discovers that there is now far more to the man than the Christmas carol would suggest ***25th***.

● ***Weds 4th-18th 0030 rep 1001, 1930; Wed 25th 1930 rep 2330, Thurs 1215***



SATELLITE WATCH

BY LOREN COX ET ALII

THE TROUBLED ANIK E2 SATELLITE finally became operational on 1 September, the Ku Band transponders having been lit up with the services that had formerly been on Anik C1. On the following day the C-Band transponders were lit with services that - as of this writing - are continuing to operate parallel on Anik D1, evidently to provide time for the reorientation of downlinks. The satellite is located at 107.3 deg. W, which had been the orbital slot of Anik C1. Anik E2 is the largest satellite ever launched for its type of service. It has a capacity of 24 C-Band transponders for video and 32 Ku band transponders for video with power capability of 15 watts on C-Band and 50 watts on Ku-Band. The Ku-Band spot beaming remains as it was, with the horizontal transponders beamed on East & East Central Canada and vertical transponders beamed on West & West Central Canada. Despite the spot beaming we were anticipating improved improved reception at this QTH, which is on the edge of the footprint, since we were getting at least watchable pictures from the Anik C1 15 watt transponders, altho' rain-fade was a problem. For Ku-Band reception we use a 1.2 meter offset fed "dish" - adequate for most Ku-Band reception. And reception has definitely been improved, tho' perhaps not as dramatically as we had hoped. TV ONTARIO is almost sparkle free using 22 MHz bandwidth with threshold extension, same for Y TV. Most dramatically improved were MUSIQUE PLUS, ATLANTIC SATELLITE NETWORK, RADIO QUEBEC (which is TV, not radio) & QUATRE SAISONS. ASN is sparkle free on its 12.182 GHz frequency (slight noise still discernable on ASN's 11.756 GHz frequency) as are RADIO QUEBEC (11.852 GHz) and QUATRE SAISONS (11.878 GHz. Some slight noise still on MUSIQUE PLUS (11.-730 GHz). Previously ASN, RQ, QS & MP were barely discernable. All of the OAK-encrypted channels appear sparkle free (no noise on SUPER ECRAN [11.791 GHz] when we saw it briefly "in the clear"). To assure lowest noise on all transponders, the 22 MHz bandwidth with TE is recommended; perhaps half transponder" type deviation being used. TV audio on all transponders (mono) is the odd frequency of 5.41 MHz, some services running other subcarriers for stereo. As expected CJRT-FM, Toronto, which rides the video carrier of TV ONTARIO (12.000 GHz) is out of the noise (5.76-5.94 MHz, stereo). Mostly an "arts" format; carries the "Goon Show" on Tuesdays @ 10:00 am ET. Have observed nothing on vertical transponders (because of spot beaming to the west) except a sports "backhaul" (horse racing) and some SCPC activity, one being CBC MANITOBA, which permits us to listen to "Ideas" at the (for us) convenient time of 10:00 pm ET. CBC MANITOBA was on two channels for several days, but noted today that one channel was carrying RADIO CANADA (Fr.). Obviously a larger "dish" would produce an even further enhancement of AE2/Ku at our location; as one goes further into the footprint reception on dishes of one meter & less should be excellent. If we ever have clear skies and low humidity here again, reception should be somewhat further improved with our rather small Ku "dish".

It looked for a time that Anik E2, after a successful launch, was going to be a total loss. Originally intended to become operational 1 June, the C-Band antenna on the vehicle would not deploy - why the satellite would have to be abandoned altogether, not being activated for Ku-Band service, we don't know. In any event, a "kill it or cure it" maneuver (a shake of the vehicle) was executed, which freed the recalcitrant antenna. The maneuver required the expenditure of several months' worth of steering gas, despite which the satellite still has a useable life of about 12 years.

Still to be launched is Anik E2's sibling, Anik E1, which was also supposed to be up & shining by now. Last we heard there were problems with the launch vehicle. (Western interests may now simply purchase what was the Soviet space program as a means of better maintaining launch schedules.) If Anik D1 had become unuseable before an E series were up, there were contingency plans being considered involving use of Galaxy 6.

AS FOR AE2/ C-Band performance. Well, we can't quite tell. Because a little accident has befallen the C-Band dish. I mean, an actuator collapsus. Occurred when bel seno (dw) was attempting change satellites: instead of "dish" movement, a grinding, crunching noise culminating in a thump. Counter indicated dish movement program was being completed, but no movement. Wormgear mechanism in the actuator (jack) had given way. The linear actuator, a lengthening & contracting arm which will move a "dish" through approximately 100 degrees of the Clarke Belt, is the element in a "TVRO" system that is most likely to break down (unless you have a Uniden receiver, which are notorious for electronic failure). We would advise anyone installing a "dish" to use one of the new, improved,

horizon-to-horizon types of dish-rotator (e.g. the Ajax): more reliable, provides greater "dish" stability, permits moving "dish" into Intelsat range. In any event, bel seno & bro (lc being artistically absent) obtained a new linear actuator (jack) - the old Seabreeze "dish" (why would they call it that when it was made in Kentucky?"), rather precariously stuck on a 20' pole, not being compatible w/h-to-h device. Installation - because of the height - a bit trickey, good functioning jackeroo (Venture - reed switch), but, !kcuhoopanhtsioopamissikthsawhseeW !O (or the opposite of Madam Tweedy-Bloom's squeals of ecstasy at Boylan's thrusting), it seems no longer possible to get the contrary "dish" properly to track the the arc of engines crost the sky. We've gone through the various procedures presented in the texts devoted to the theory & practise of aligning & tracking an actuator equipped satellite receiving antenna, but, thus far, to no avail. Can peak beautifully on individual satellites, but won't maintain from satellite to satellite; which would seem to indicate a declination maladjustment, but this "dish" came preset for the declination in these latitudes (virtually any "dish" you get today will have means for manual declination adjustment). Possibly something was knocked awry, not visually discernable, when the actuator arm collapsed. And the latesummer heat, magnified on the roof, has resulted in a temporary postponement of another try. Of course, a new "dish" would be quite desirable - today's 10' aluminium (mesh or perforated) types from manufacturers like Winegard or Unimesh or Orbitron are quite good - and that may be the only solution, but that requires not only $$$ (and welfare moneys will go only so far even when one is making use of the Ambrose plan in regard to necessities) but also the devising of a strategy physically to remove this "dish" and replace it with another (initially, a crew of men carried it across the house & placed it on the pole). For now, the "dish" has been left peaked on the area of Galaxy 3 for C-SPAN AUDIO 2 (BBCWS) & 1, YESTERDAY USA (& other audio services), C-SPAN & COMEDY CENTRAL. Also adequate for strong transponders from Westar 4 through Galaxy 2. But enough of boring you with our troubles. (If you wish to go "dishing" try to have a propitious location for doing do, not only for complete arc coverage, but also for easy accessibility of the "dish" for servicing.)

THE BBC-1 "SIX O'CLOCK NEWS" seems finally to have been lost to our purview. Last seen on 29 Aug. on Westar 4, Ch. 10. The uplinker, Bright Star, had been, on some occassions, using B-MAC encryption on the "Six O'C", but not of late. Appears to have been taken down altogether. The 18:25 UTC feed of VISNEWS on this channel continues as well as the feeds from London for the CBC and WORLD MONITOR at about 21:00 UTC. But we still have BBC TV news, at least on a delayed basis, as the London to Australia feed (now beginning at 22:15 UTC) includes the complete BBC "Nine O'Clock News"; may be followed by the ITN news or special feeds for Ch. 7 etc. Australia. The "Nine O'Clock News" is not quite as elaborate a production as the "Six O'Clock News", having only a single anchor - the "Six O'C" is dual anchored, usually male & female. The "Six O'C" had been my lunchtime accompaniment most days for about six years; don't like to have my listening/viewing routines upset. The "Nine O'C" etc. feed, as of this writing can be seen on Westar 4, Ch. 14. (This London to Australia feed had formerly been on Galaxy 2, Ch. 9, beginning at 21:55 UTC, and included VISNEWS as well as excerpts from BBC & ITN news.) AUSTRALIAN BROADCASTING CORPORATION SON OF OZPAC ABN2 (on chyron).

AND EUROVISION NEWS now, sometimes, drifts into our ken: via the NBC London feed which is often on SBS2/12.116 GHz. SBS2 is one of the inclined orbit Ku-Band satellites (the other is G Star 3). This means that it is viewable only for limited periods of time on a dish that cannot follow it up & down as it changes altitude - at this QTH will be sparkle free for about a couple of hours in the morning and for a couple of hours in the evening. Seems to come up a bit earlier & go out a bit earlier each day. For a while, the "window" has coincided with the 14:15 UTC EVN feed. As mentioned a number of times before, we like the Eurovision feeds, not only for their content, but also for the often colourful & interestingly designed "chyrons" from the various European networks that precede each network's contribution to the assemblage of items that is but together in & transmitted from Bruxelles. SBS2 appears to be devoted almost exclusively to NBC usage. The NBC NEWS CHANNEL, however, which has been on 12.068 GHz, is now on Stacom K2, surely more convenient for NBC affiliates, who otherwise have to have an automatically tracking dish to keep up with SBS2. But I did see a most unusual chyron on the 12.068 frequency one evening: obviously a retransmission from a European satellite. The chyron bore the following lettering: RADIO 21 / SON STEREO NICAM / SUR WAVRE CANAL 28 / RADIO 21 24 HEURES SUR 24 / TELE 21. A crawl across the top of the screen was a listing of VHF/FM radio frequencies, evidently stations taking programming from this feed: BRUXELLES 93.2, TOCRANI 106.4, NAMUR 90.8, LIEGE 95.6, CHARLEROI 99.1, BASTOGNE 96.4. The audio on the 6.2 & 6.8 subcarriers was continuous pop music. Don't know how long this stayed up as the satellite had drifted away by about 11:00 pm local time (EDT). Have checked the World Satellite Almanac for a TELE 21/RADIO 21 on any of the European satellite transponders, but don't find a listing. Why NBC, if it was NBC, was uplinking this, we have no idea. Was up when we tuned in and stayed there for about 1½ hours before fadeout. Seems that satellite monitoring, even to the limited degree (even before the "dish" accident) we have been able to practise it, continues to reveal the unexpected.

UNFORTUNATELY, THE DISH PROBLEM HERE has coincided with the breathtaking events that have been occurring in - what is is being called now? the "Union of Sovereign States"? So "backhaul" monitoring has been somewhat impeded. CNN have had a continuous feed from Moscow on Galaxy 2, Ch. 7, but

in the days immediately following the putting down of the coup and the dizzying events that followed, CNN engaged in "signal protection" by means of the Leitch View Guard system (audio "in the clear"). A factor in this - presumably the major one - was Teddy boy's extreme displeasure at scum o' th' earth "dish heads" watching all of those "backhauls" from Dhahran etc. during the Great Gulf War. (Want to confiscate my tapes, Teddy?). Of late have observed CNN MOSCOW "in the clear" (colour bars) on G2/7 &/or G2/11. Radio, via satellite & SW, was a major source of information, especially the BBCWS and Radio Moscow - all of us having been fascinated in the transformations as they occurred on the latter - first as the coup was reported and the statements of the junta perfunctorily read (noticed the news readers did not give their names) and then, as liberal & revolutionary forces quickly dispatched the coup and started the process of dismantling the Soviet state appratus (and, concomitantly, ending the Communist Party not only as ruler of the state but as an organization), for the first time in its existence, becoming a free radio voice, using words like "democratic", "democracy" in their true meaning instead of as propaganda catch phrases to cover a totalitarian agenda. VREMYA is gone from the airwaves as PRAVDA is gone as a publication. Vladimir Posner, apologist for & explainer of the old regimes, is now exulting in the new freedom, both personal and of the media. With NBC LONDON being on the bobbing-up-&-down SBS2 satellite, we missed a lot that would have been on that circuit (was on the stable SBS3 satellite during the Gulf War). Because of the "dish" problem PBS reception on Spacenet 1 isn't up to par, so we had to go to KET for MacNeil-Lehrer, but by means of an ON-TV UHF Yagi & amplifier we were able to obtain excellent reception from an out-of-town station. (ON-TV was a pay-TV service distributed by satellite to terrestrial UHF transmitters; one such station was located in Cincinnati: Ch. 64, which remains on the air as an independent commercial TV station).

But the question is: Can that peculiarly Western political mode, democracy, with its hundreds of years of developemnt, "go" in the Soviet Union - or what had been the constituent states thereof? No precedent for democratic practise there. J-J. Rousseau observed that Russians, being by nature slaves, get the government they deserve. The first undemocratic move was to outlaw the Communist Party & ban its publications.

Someone named Knittl in one of Pound's Cantos is quoted as observing that Russians have no civilization because thay have no stone - therefore have no sculpture.

BUT OF ALL OF THE POLITICAL ACTIONS OF MAN

REVOLUTION, unquestionably

is the most exciting

dramatic

decisive -

offering promise of fulfillment

of human aspirations only possible

in the milieu of freedom

which, perforce, is any revolution's first objective

but also, in so many instances, threatening

just the opposite

as the revolution dissolves into its "excesses"

or becomes the instrument of a power elite

that captures the revolution

"in the name of the people" as they usually say,

their actions, always, "for the good of the people",

which is precisely what happened

in the Russian Revolution as the Bolsheviki captured & awryed it

producing, whatever the Socialist/Leninist ideals,

a brutal police state

exercising over its citizenry control

by means of all of the techniques of coercion

a modern state will have at its command

which only meant

FLASH: 16/9: A feed of the "ITN World News" - for Trinidad - is now up @ 17:00 UTC on Westar 4. Ch. 12.

FLASH! FLASH! "WORLD OF RADIO" ON SATELLITE (probably alluded to elsewhere in this publication). As a part of the LET'S TALK RADIO audio service on Spacenet 3, Ch. 21, 6.2 audio (WB), "World of Radio" will be up @ 22:00 UTC Fridays; scheduled to begin 27 Sept. (Mr Hauser could previously be heard via satellite giving his segment of the late RCI "SWLD" - either on SCPC to Sackville or on C-SPAN AUDIO ONE.) There is scrambled video on this channel, which makes subcarrier tuning difficult on some receivers (IRDs). On the same channel, on Wednesday evenings, 9:00 to 11:00 pm ET, MT satellite editor, Ken Reitz, presents a listener participation program for the TVRO user & hobbyist.

the time, one day, would have to come
when there would be
a revolt against the latest revolution -
in essence, the history of mankind, politically, intellectually, culturally -
but none more certain to occur
than when the revolt is directly caused
(even after an interval of 74 years)
by what the revolution proved to/failed to/be

A political/social revolution can be said to have been a success
only when a people, faced with their "dreadful freedom",
can, with that utmost measure of political wisdom
of which mankind are capable,
answer the question: "What do we do
now -
now that we are free?"

FLASH: One of the reasons for having a satellite "dish", DEEP DISH TV, begins its Fall season of twice-a-week one hour transmissions of documentaries from "alternative" sources on 1 Oct. Times are Tuesdays @ 6:00 pm ET & Thursdays @ 2:00 pm ET (the latter is a repeat). The satellite (again) is Satcom F4, Ch. 22. Previews of the upcoming season shall have been shown on 24 & 26 Sept.

Whether that measure of wisdom may be said to reside in the peoples of Russia and the other national entities that were the Soviet Union - in the persons who have or will come to have leadership roles in those entities - is not yet clear.

Keep tuned to as many channels as you can as this fascinating story unfolds: What witnesses to history we have come to be as the 20th century draws to a close!

NOW WOULD YOU LIKE TO KNOW why Robert Straus was appointed Ambassador to the USSR (a name, for convenience, we may continue to use)? For commercial reasons, as generally recognized; help to teach the virtues of, and how to operate, a "market economy". Actally, a major part of his endeavour has to do with Cable Television. Mr Straus, "Mr Democrat", has been one of Cable's most ardent advocates and lobbyists, very helpful to the industry because of his political influence and contacts. And U.S. media megacorps are extremely anxious to expand their operations into what they perceive as lucrative foreign (pace Teddy) markets. This was made evident in a teleconference we caught yesterday called "Cable Worldwide". (The reference in these pages last time to "World Universal Cable" was no joke/not much of an exaggeration.) For Cable has expanded virtually to its limits in this country, 91% of American homes (Cable's statistic) being in a position, should they choose, to "suck at the cable line". Also, there is currently a credit crunch; borrowing for expansion & consolidation is currently difficult. So overseas is the place to go. And Mr Straus is very much in a position to promote Cable interests in the USSR, help them get a foothold in a market, depending on a relatively tranquil transformation of the USSR into whatever is to follow, of enormous potential.

THERE IS A VIDEO VERSION of the CBC "Ideas" program: called "Ideas on Camera". It is presented on Sundays at 1:00 & 11:00 pm ET on the CBC NEWSWORLD, which only Canadians are permitted to see. NEWSWORLD is transmitted on satellite in the OAK ORION format. It is available to Canadian "dish" users as a part of the CanCom package to which they may subscribe (if Cable is unavailabe or undesired). U.S. citizens have been known to subscribe to CanCom through a Canadian address.

NEWSWORLD may be seen "in the clear" in the mornings before regular programming begins on the regular CBC channels (e.g., CBMT) on Anik E2. "Backhauls" may be seen on Anik C2 (e.g. 12.155 GHz). NEWSWORLD has not exactly been a glowing success, attracting only minuscule interest among Canadian TV viewers.

WILL THERE BE A "CABLE BILL" THIS YEAR? Senate Bill S12 (the "Danforth Bill") still awaits any sort of floor action as of this date (11 Sept.). Looked upon by "dishers" as their last change for gaining marketplace equity for the TV reception technology they choose to use, as well as containing provisions intended to be beneficial for the Cable subscriber, the bill is being heavily campaigned agianst (hardly unsurprisingly) by the Cable industry, one aspect of this campaign being little messages inculuded in customers' Cable bills. Subscribers are being urged to urge their Senators to oppose the bill for the following reason: One provision of the bill, at the urging of the broadcast industry, would require the Cable industry to compensate broadcasters for the signals they appropriate for resale as a part of their "basic service": so Cable customers are being advised that should this horrid bill become law, their Cable bills will io ipso be increased, probably substantially. (We suspect that in most instances such a "retransmission fee" would be a nominal one, as broadcasters find it to their advantage to be on the Cable line, otherwise they might not have access to viewers,

a surprising number of people, especially in metropolitain areas, not being aware that television can be received by attaching a little device called a "rabbit ears", or a device to be put on the roof called a "yagi antenna" to something called "antenna terminals" on the back of the TV set - so pervasive has Cable and the idea that the only TV is pay-TV already become.) But what of the position of the terrestrial broadcast stations? Why should they make a gift of their programming to another TV distribution technology which is making use of it for profit? It is their property, for which they have a right to make a charge to any entity which wishes to make commercial use of it (sell it.) Surely our friend, Mr Lay (rugged individualist [Social Darwinist?]), would agree that the broadcast industry have a right to charge the Cable industry - and charge them whatever they see fit - for the programming broadcasters are providing to Cable - a competing industry (the FCC has determined that six (6) broadcast stations in a market constitute competetion for Cable), and that the broadcast industry is under no obligation to "help" the Cable industry by providing that industry a source of no-cost programming, programming that happens to be popular with, desired by, Cable subscribers, who would be most displeased to see its removal: no local news and no Network TV. If the provisions of S12 (including Cable compensation for signals appropriated from terrestrial broadcasters) should become law - unlikely considering the high probability of a Bush veto - the benefits to the Cable subscriber will more than offset whatever may have to be made up as payment to the broadcast industry for use of its programming - payment which we believe is merited. So don't be taken in by Cable's "scare tactic" in regard to S12.

A DISINGENUOUS PERFORMANCE? We are referring to Judge Clarence Thomas' appearance before the Senate Judiciary Committee, which (as of this writing) is engaged in determining if Mr Thomas is indeed worthy of being a Supreme Court Justice. Again, we "alternative" types are being provided "gavel-to-gavel" coverage of the proceedings by the nation's only "alternative" radio network, Pacifica. For "dishers", the Pacifica affiliate feed is available on Westar 4, Ch. 3, SCPC. Coverage of these Washington Congressional hearings has become a tradition with Pacifica; we have tapes of most of them, which have included Iran-Contra, Bork, Souter, etc. Pacifica's doubting (of) Thomas commentators for coverage of this Judiciary Committee proceeding are Ambrose Lane, Jeanette Hinkley and (as legal consultant) Audrey Feinberg. We find these examinations, the exchanges between the Senators and the person being called upon to justify himself, most interesting (at least at times), despite the fact that most of the Senators are not very good interrogators, seeming at times to be more interested in making statements, which are prepared by their staffs, as are most of the questions. And the examinees, in the cases of Souter & Thomas, are concerned to reveal as little as possible; it becomes a game as attempts are made to draw out the nominees views on significant issues. The political nature of the Court and making/confirming appointments to the Court has never been more political. Anyway, its a lot of lawyer dialog; would be nice if there were a human being present to ask human questions. The law is too much a hermetically sealed game, in its higher echelons like the Supreme Court played by hermetically sealed minds more concerned with the law as a sorting out of conceptual nicities, their decisions having little or no effect on their own comfortable lives, than with how their decisions affect people, real, alive & troubled. This is especially the case as the "good & right people" - "conservatives" - come to dominate the Court: their "conceptual nicities" confirming what a "conservative" document the Constitution is, guaranteeing much less of what we would call "freedom", regard as "rights". (Who are "we"?)

Now as for Judge Thomas, obedient water-boy for the Reagan-Bush team (did we say that?), admirer of the philosophy of Ayn Rand, cozyer-up to every "right-wing" group he could find, are we to believe that he has shed his "right-wing" garb replacing it with the impartial, agendaless, robes deemed appropriate for the judiciary? Did his predecessors on the Court, whether their mental cast be toward the "left" or "right", so expunge themselves of their convictions that they came to the Court as vessels empty of significant ideas, feelings, opinions? No; nor could it be reasonably be expected of Judge Thomas. We feel that he protests his innocence of ideology too much, explaining his "right-wing" positions as totally to be identified with the CT who served in, was an advocate of, the Bush-Reagan administrations and their policies, and not the CT who has been nominated for the Supreme Court. But his sponsors surely do not expect him - they would be greatly disappointed if he did - to leave his ideological baggage at the door of the Supreme Court Building. In any event, the Court has been all but lost as an instrumentality that has a role in the achievement of a more humane and civilized society; indeed, we may expect to see it as continually more resistive of those ends.

Which is the end of this commentary.

AS ANTICIPATED, ABC have Leitched ("encrypted") all of their satellite channels, both program and "backhaul". However there remains a hole in the dyke of signal security: the NHK New York channel - Westar 4, Ch. 18 - which puts up ABC programming a good bit of the time. The millions of dollars the commercial Networks have spent simply to remove their programs from access by the less than 3 million "dish" owners, on the face of it, appears the height in absurdity; so other strategies, which will involve the eventual end of all "free television", must be behind it.

DW, who prepared the last SW, wishes to "a(nthro)pologise" for a couple or so "typos" that escaped her (and lc's) notice. And the "Betelgeuse Goose", Nadine Wurlitzer, wishes you "CELESTIAL LOVE!".

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MORE BBC PREVIEWS FOR DECEMBER (continued from pp. 31-32-33) REAL WORLD MUSIC Peter Gabriel's WOMAD--World of Music, Arts and Dance, 60 artists from 20+ countries, with Andy Kershaw, 4 programs of live performances, Mons from 9th 2220 rep Tues 0630, Weds 1615, Fris 1030. COMPOSER OF THE MONTH is Sergei Rachmaninov, Mons 0230 rep 1130, Tues 1715. THE MEN FROM THE MINISTRY, 3 episodes of vintage comedy: The Big Rocket, 11th; Something About a Soldier, 18th; The Christmas Spirit, 25th. Weds from 11th until 25th 1530, rep Thurs 0030, 1030. OFF THE SHELF reads Lord Jim until 13th; Through the Looking GLass, by Lewis Carroll, read by Alan Bennett, 16th-24th; The Shepherd, by Fredrick Forsyth, read by Madge Hart, 25th-27th; Goldfinger, by Ian Fleming, read by David Rintoul, Dec 30th-Jan 10th--Mons-Fris 0430 rep 1430. EVEN GRIMMER TALES (3 x 15 min) read by Fiona Shaw: Nourie Hadig, Sat 28th 0030 rep 0730, 1945; The Little Red Fish And the Clog of Gold, from Iraq, Sat 28th 0445, 0915; Beauty and the Pock Face, from China, Mon 30th 2205 rep Tues 0930. PLAYS OF THE WEEK: Damaged Goods (60 min), by Eugene Brieux about syphilis in 1901y, Sun 1st 0101 rep 1201, 1901. Amadeus (90 min) by Peter Shaffer in special WS adaptation, Sun 8th 0030 rep 1130, 1830. The Incredible Samuel Pepys (60 min), adaptation from diaries, one-man stage show with Brian D Barnes, Sun 15th 0101 rep 1201, 1901. A Christmas Cracker (60 min), four actors delve into lit, drama, poetry of past, Sun 22nd 0101 rep 1201, 1901. Charley's Aunt (60 min), by Walter Brandon Thomas, Sun 29th 0101 rep 1201, 1901. SHORT STORY, Tough Medicine, from Australia, 7th; The Curfew, war-torn Sri Lanka, 14th; The Watermelon Bathers, Australia, 21st; Climbing Kibali, Zambia, 28th--Sats 0130 rep 2205, Suns (ex 1st) 0915; Fri 27th 0545. THE CHRISTOPHER, a comedy for Boxing Day, Thu 26th 1130 rep 1715, Fri 0230. THE VILLAGE, Xmas story from Orkney Islands, Wed 25th 1645 rep Thurs 0545, 2009. UNTAKEN BY ANGELS, Xmas story at North Pole, Tue 24th 1630 rep Wed 0915, 2009. IN PRAISE OF GOD, The Colours of Advent, from St Albans throughout Dec, with new rose window, special music, Suns 1030 rep 1715, Mons 0030.

MORE FROM LOREN COX Atlantic Satellite Network runs "viewer discretion advised because of language and nudity" flicks Saturday evenings (Anik E2, 12.182 GHz); ASN, a commercially sponsored Cable/sat TV station (produce their own news programs), that welcomes BOTH sat & cable viewership, spot beamed on NB, NS, NFL, LAB; generally sparkle free here unless rain fade.

Rec'd a letter from Malcolm Kaufman who questioned my glowing reports of BBCWS audio quality on C-SPAN subcarrier because it sounds so lousy on his cable system. My guess was that it was a modulator problem, & sent him a tape demonstrating what it's supposed to sound like. Said he w'd try to get cable people to listen to the tape/correct the problem, but doesn't expect them to do anything toward rectifying the situation. Good ol' cable!

GH: RIB & DXLD come out irregularly, so please be patient. New issues are announced on WORLD OF RADIO

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